

THE BULLETIN

SEPTEMBER 11, 2000 ~ 54TH YEAR ~ NUMBER 3

D108.002

U of T and Chun Reach Agreement

BY SUE BLOCH-NEVITTE

U OF T AND FORMER RESEARCH associate Kin-Yip Chun have reached an agreement that will enable him to return to his research in seismology in the physics department, ending more than six years of conflict over Chun's allegation of racial discrimination by the university.

The agreement follows the July 24 decision by the Ontario Human Rights Commission not to refer Chun's complaint to a board of inquiry. The decision meant that the commission found no sufficient factual basis to support Chun's claim.

According to the agreement, Chun will hold the title of research scientist and associate professor (non-tenure stream). This academic designation means that Chun's principal duties will be research, with the possibility of graduate student supervision under normal university policy.

In a joint statement that accompanied the agreement, both parties "express regret at the harm done to all those involved in this protracted dispute. They are pleased that the

dispute has been resolved, including all outstanding litigation, and that a solution has been found that is consistent with the University of Toronto's policies."

"The university is pleased that we have found resolution to a long-standing and difficult situation for the University of Toronto, the physics department and Dr. Chun," said President Robert Birgeneau. "Throughout this dispute we were committed to finding a solution that is consistent with our policies on academic appointments and would enable Dr. Chun to resume his research. We welcome him back to the university community."

Chun will resume his work with the university this fall. As part of the financial elements of the agreement, he will receive start-up funds for his research. Though not a requirement of Chun's research position, he may be involved in supervision or teaching when his research program is established. He will also be able to apply for tenure-stream positions and will be subject to annual review as are all faculty members and research staff of the university.

TRIBAL COUNCIL



There isn't a \$1-million prize on the line, but this group of Victoria University frosh was put through their paces during Orientation Week in preparation for the most grueling game of survival yet — four years of undergrad at U of T.

JEWEL RANDOLPH

Provost Endorses Grad Student Aid Report

Task force recommends unprecedented levels of financial support

BY JANET WONG

BEGINNING THIS SCHOOL YEAR, U of T will provide unprecedented levels of financial support for doctoral-stream graduate students, says Provost Adel Sedra.

"This is a very good news story because we are putting \$5.2 million of new money in to graduate student support this coming year, in addition to all of the money that is already in existence," he said. "This is a major infusion, the largest in recent history."

The final report of the Task Force on Graduate Student Financial Support, which Sedra calls "a very significant achievement," forms the basis for how the university will support its graduate students.

Sedra formed the task force in December 1999 to examine financial support packages for graduate students and is endorsing most of the report's 23 recommendations, which range from minimum funding packages to travel, research and conference funds.

The report states that graduate education is one of the core functions of a research university and in order for U of T to maintain and enhance its reputation as a leading research institution, it must ensure that its graduate programs attract and recruit the best national and international students. In order to

do that, the university must offer these students the academic and financial support needed to conduct research and complete their degrees.

Sedra fully concurs. "It's not just getting them here but also seeing them through, to help them do their work here and succeed and complete their work in a reasonable length of time. It has been shown that lack of sufficient funding causes graduate students to take longer to complete their degree which is not good for anybody."

One of the major recommendations put forward by the task force is a minimum multi-year funding package of \$12,000 per student per year, plus tuition fees for doctoral-stream students for the first five years of study. While the task force believes \$12,000 plus tuition is an achievable target in the short term, it adds that \$15,000 (plus tuition) would be a more appropriate target and that students with greater needs would require even higher levels of funding.

Tied to the funding packages is enrolment planning — the task force recommends that academic units undergo graduate student enrolment planning to ensure that funds match the number of students registered. In addition they recommend that post-four

students — graduate students in their fifth and sixth year, and into the seventh year if approved — be provided with a grant equivalent to \$2,500 per year effective September 2000.

Sedra fully endorsed the recommendation for minimum guaranteed packages of support and agreed to commit \$12,000 plus

~ See NEW: Page 4 ~

New Grad Residence Open, Finally

BY JANET WONG

SOME 430 GRADUATE STUDENTS finally have a place they can call home — their much anticipated and long delayed residence is open for business. Well, mostly.

Glenn Greer, building manager of Graduate House, said about 100 students moved in over the summer. The beginning of September saw over 300 more students take up residence, with the remaining 23 scheduled to move in by the end of November which will bring it to full capacity. "It's been a long haul," Greer admitted.

Located at the corner of Harbord Street and Spadina

Avenue, the \$23.5-million residence was originally slated to open in the fall of 1999 but construction delays kept pushing back the opening date. The university arranged to house the "homeless" students in various apartment hotels close to campus, which netted the School of Graduate Studies a loss of approximately \$700,000.

After being put up in an apartment hotel last year, Sirish Pande, a master's student in electrical and computer engineering, is relieved that the residence is finally open but the ongoing construction is grating on him.

~ See NEW: Page 4 ~

Memorial for Bissell

A RECEPTION TO CELEBRATE THE LIFE OF CLAUDE THOMAS BISSELL, U OF T president from 1958 to 1971, will be held on Thursday, Sept. 21 from 4 p.m. to 6 p.m. at Massey College. If you wish to attend please RSVP to (416) 978-6896. In this issue, Ernest Sirluck, former vice-president and graduate dean and a longtime friend, remembers the former president. See Forum, page 16.

INSIDE



Loosed moose

THE ADVENTURES OF MOOSE-SHALL McLuhan. Page 4

Painting a people

AN ANTHROPOLOGIST FINDS JOY through art and reconstructing our beginnings. Page 7

Tie me kangaroo down, mate

WIN, LOSE OR DRAW, LET THE Games begin — or not. Pages 10 and 11

IN BRIEF



Bookstore workers ratify contract

PART-TIME WORKERS AT THE U OF T BOOKSTORE ARE BACK AT WORK following a three-month strike. "They played hard ball with us," said Medhi Kouhestaninejad, president of the Canadian Union of Public Employees, Local 3261. "But we got a good deal." Over two-thirds of the 22 part-time strikers voted to ratify their first contract last Tuesday. The 14-month agreement ensures that new part-time staff will start at \$7.35 per hour, up 10 cents, and move forward on a wage grid system, to a maximum of \$9 per hour. Other issues resolved by the contract include job security and the implementation of fair grievance procedures. "We are glad to have the strike settled at last and look forward to having normal relations with the staff."

Hope for Hart House Theatre

HART HOUSE ADMINISTRATION WILL PRESENT A DISCUSSION PAPER TO Simcoe Hall Sept. 19 in the hopes of saving the famed theatre. While Hart House and the Hart House Theatre have shared a name and building since 1919, the two have always maintained a separate identity and budget. "One of the issues at hand is the fact that the theatre, as with many cultural institutions, has never been able to support itself financially and the university has subsidized it to the tune of almost \$200,000 a year," said Hancock. "Because Hart House is funded with student and senior member fees, we have to see if we can make this merger work financially before we take on this kind of responsibility." The theatre needs extensive technical refurbishment including sound system improvements, new scaffolding, upgraded stage rigging, a refurbished lighting system and an upgraded box office and lobby area to make the theatre more attractive to off-campus productions. "Right now this is all conjecture and dreams," Hancock said. "But people who were really sad and afraid that the theatre would be lost are happy that there is at least a chance that it will not only stay open but be revitalized."

Appointment to jump start Varsity

MARY ANN PILSKALNIETIS WAS APPOINTED SPECIAL ASSISTANT TO the dean (facility and program planning) at the Faculty of Physical Education and Health Aug. 21. Pilskalnietis will work with Jack Dimond, provostial co-ordinator on the Bloor/Varsity/Devonshire neighbourhood, ensuring effective communication and co-ordination between the various internal and external bodies involved in the completion, approval and implementation of the Varsity Stadium and Varsity Arena users' committee report, released in January. Pilskalnietis was the former director of physical education, athletics and recreation at the U of T at Mississauga.

AWARDS & HONOURS



Faculty of Arts & Science

PROFESSOR MICHAEL BLISS OF HISTORY HAS RECEIVED the Wallace K. Ferguson Prize of the Canadian Historical Association for his book *William Osler: A Life in Medicine*. The Ferguson Prize is awarded by the association for the best book of the year published in Canada in a field of history other than Canadian.

PROFESSOR JILL CASKEY OF FINE ART RECEIVED THE 2000 Founders' Award for her article *Steam and Sanitas in the Domestic Realm: Baths and Bathing in Medieval Southern Italy*. The award, presented at the annual meeting of the Society of Architectural Historians, is given for the best article by a junior scholar to come out the previous year in the *Journal of the Society of Architectural Historians*.

PROFESSOR JAMES DRUMMOND OF PHYSICS received a Patterson Medal for Distinguished Service to Meteorology for 1999. Presented at the annual conference of the Canadian Society for Meteorology and Oceanography, the medal is considered the pre-eminent award recognizing outstanding contributions to meteorology in Canada.

Faculty of Law

PROFESSOR JENNIFER NEDELSKY OF THE FACULTY OF Law and political science is this year's recipient of the Bora Laskin National Fellowship in Human Rights Research. The award, established by the Social Sciences & Humanities Research Council of Canada in 1985, supports multidisciplinary research and the development of Canadian expertise in the field of human rights.

Faculty of Medicine

PROFESSOR JOHN DICK OF MOLECULAR AND MEDICAL genetics has received the prestigious Robert L. Noble Prize, awarded by the National Cancer Institute of Canada in recognition of outstanding achievements in cancer research and sponsored by Eli Lilly Canada Inc. Dick received the award for his pioneering research that paves the way for new treatments for leukemia.

PROFESSOR CHI-CHUNG HUI OF MEDICAL GENETICS and microbiology is the recipient of the National

Cancer Institute of Canada Terry Fox Young Investigator Award, given to a promising young investigator doing outstanding basic laboratory research. Hui received the award for his work in understanding the biological process by which cancer develops. The award is supported by the Terry Fox Foundation.

PROFESSOR CAROL HUTCHISON OF SURGERY IS this year's winner of the Dean A.L. Chute Award (the Silver Shovel), awarded annually to the undergraduate teacher who is deemed by the fourth-year undergraduate medical class to have demonstrated excellence in overall teaching in the third and fourth years of the undergraduate medical program. The award was presented at the annual Medical Alumni Association banquet for the graduating class.

PROFESSOR ROBIN RICHARDS OF SURGERY WAS elected president of the Canadian Orthopaedic Research Society for a one-year term at the society's annual general meeting. The purposes of the society are to promote, support, develop and encourage research in orthopedic surgery, musculoskeletal diseases, musculoskeletal injuries and related disciplines and to provide, encourage, develop and sponsor related educational activities as well as provide a forum for the dissemination of knowledge in these fields.

Faculty of Nursing

PROFESSOR BEVERLEY CHALMERS OF THE FACULTY of Nursing and cross-appointed to obstetrics and gynecology is the recipient of the Women's Health Research Award for 2000 from South African Women for Women. The award acknowledges Chalmers' work aimed at improving the health and welfare of women and children.

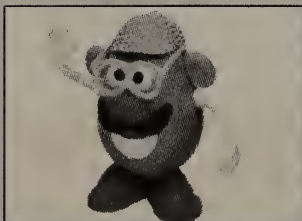
OISE/UT

PROFESSOR CARL BEREITER OF APPLIED COGNITIVE science at the Ontario Institute for Studies in Education of the University of Toronto has been selected as one of the 100 Great Thinkers on Education and subject of an encyclopedic entry to be published in the Routledge series of that name. The only Canadian entry on the list, Bereiter is best known for his work on preschool education.

ON THE INTERNET

FEATURED SITE

This spud's for you



STUDENTS OF EUKARYOTIC molecular biology give a whole new meaning to messing with your head — Mr. Potato Head, that is — with their Web site devoted to the study of genetically modified foods. A joint venture of the

Faculty of Medicine and the departments of botany and zoology, the course includes a component where students can present their research findings in a Web site format. Indeed, here's a chance to explore a wide range of 33 project sites such as resistance to herbicides, viruses, pests, labelling, genetics and the ethics of genetically modified foods. The sites range from very basic pages using text to implementing RealVideos cartoons. Some are quirky and humorous, yet essentially they are the result of much research and hard work. Who'd ever think one would tinker with the ever-so-harmless-looking spud?

<http://dragon.zoo.utoronto.ca/~jlm-gmf/>

U OF T HOME PAGE
www.utoronto.ca

THE CAMPAIGN FOR U OF T
www.uoftcampaign.com

RESEARCH UPDATES (NOTICES)
<http://www.rir.utoronto.ca/>

PHD ORALS
www.sgs.utoronto.ca/phd_orals.htm

U OF T JOB OPPORTUNITIES
www.utoronto.ca/jobopps

If you want your site featured in this space, please contact Audrey Fong, news services officer, at: audrey.fong@utoronto.ca



SITES OF INTEREST

Practising safe science

YOUR SUPERVISOR ASKS YOU TO CLEAN UP YOUR WORK AREA AND put away all of the chemicals in your lab but you don't quite know what to do with an unlabelled container that is half full of a colourless liquid. The Howard Hughes Medical Institute has created a Web site, *Knowing How to Practice Safe Science*, that explains laboratory safety procedures and possible emergency situations. By the way, the answer to the initial question is — never store or dispose of an unidentified chemical.

<http://www.practicingsafescience.org>

A century of Nobel Prizes

IN HONOUR OF ITS 100TH ANNIVERSARY, THE NOBEL Foundation has redesigned its Web site, Nobel e-Museum, to provide information about the scientific and literary achievements and peace efforts recognized by the Nobel Prize. Site visitors will find biographical information on Nobel laureates in the areas of physics, chemistry, medicine, literature and economics as well as winners of the Nobel Peace Prize.

<http://www.nobel.se/>

THE CASE OF THE MOVING MARTYR



BY MICHAH RYNOR

MARGARET WILSON WAS A 17TH-CENTURY MARTYR WHO MET a terrible end at the hands of the Scottish state in 1685. Captured and tied to a stake for her radical Presbyterian beliefs, she drowned as the tidewaters of the Solway river engulfed her.

This seven-foot marble statue of 18-year-old Margaret, copied from an original displayed at the 1933 Chicago World's Fair, was donated to Knox College in 1938. There it held a place of honour in the first-floor rotunda until 1991 when a visiting lecturer from Pennsylvania complained that the half-naked, rope-bound figure was a hurtful image to women who had been abused.

After months of heated debate and a petition to the administration demanding its removal, the sculpture was dispatched to the college's boardroom in 1992. In 1996, as a result of another petition (this one to the General Assembly of the Presbyterian Church of Canada) from those in favour of the monument, a compromise was reached and the beleaguered statue was placed between the boardroom and its original location.

Province Expands Enrolment in Medical Schools

BY MEGAN EASTON

THE PROVINCIAL GOVERNMENT will fund 13 new undergraduate student positions in the Faculty of Medicine this fall as part of a province-wide increase in first-year enrolment in medical schools.

Elizabeth Witmer, minister of health and long-term care, made the announcement at U of T Aug. 23, with deans from several Ontario medical schools in attendance. The expansion will allow a total of 40 extra students to attend medical schools across Ontario, representing a 7.5 per cent increase and a government investment of about \$975,000. The number of positions at U of T will increase from 177 to 190, while eight positions will be added at McMaster University,

seven at the University of Ottawa and the University of Western Ontario and five at Queen's University.

Professor David Naylor, dean of the Faculty of Medicine, said he and the other medical deans in Ontario support the enrolment expansion and the impact it will have on the physician supply and distribution problem in the province. But he said there is more to be done. "We recognize this is a first step and look forward to working with the minister in future initiatives," he said.

Witmer said the enrolment increase is an interim measure towards addressing physician shortages. "We all know we're going to need more spaces in the future," she said.

In 1993 the provincial government reduced first-year enrolment at U of T by 12 per cent, or 74 positions. In July 1999 the health ministry appointed a fact-finding commission, led by Dr. Robert McKendry, to investigate the physician supply and distribution situation in Ontario. The McKendry report came out last December and recommended, among other things, that the province's undergraduate enrolment in medical schools should increase by 10 per cent (55 students) this fall.

Now the Expert Panel on Health Human Resources, led by Dr. Peter George, is examining medium and long-term solutions to ensure an adequate and equal supply of health care in Ontario. The final report will be out this fall.

Protein Inhibits Development of Colorectal Cancer

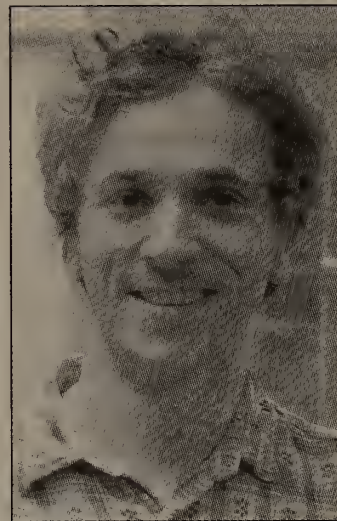
BY MEGAN EASTON

U OF T RESEARCHERS HAVE discovered a protein that suppresses colorectal cancer in mice and human cell cultures.

The researchers found that if the protein, called p110γ is absent it can cause spontaneous development of colorectal cancer in mice, and when it is present it stops tumour growth. It was a surprise discovery because they were examining how p110γ regulates the movement of white blood cells in the immune system, not how it affects cancer cells.

"This is a completely novel and unexpected finding. It defines an entirely new field of inquiry," said the study's senior author, Professor Josef Penninger of immunology and medical biophysics, the Ontario Cancer Institute and the AMGEN Research Institute. "We were studying mice that were genetically engineered to lack the protein and they started to get very sick and die. Soon we found they had invasive colorectal cancer. We never, ever would have expected that because every prediction about p110γ had been that it actually caused cancer."

After the first indication that p110γ suppressed tumour growth in genetically engineered mice in November 1999, the research team, led by Penninger's post-doctoral fellow Takehiko Sasaki, extended



Professor Josef Penninger

the study to cancer cells taken from human tissue — they found no evidence of the protein in approximately a quarter of the samples.

Then they investigated the results of putting p110γ back in the cancer cells that did not have it. The addition of the protein

stopped tumour cell growth in the human cancer cell cultures, regardless of any other genetic mutations those cells had. "This is very hopeful because it means even if people have diverse mutations that predispose to colorectal cancer, our protein might have the possibility to shut them all down," said Penninger, senior author of the study, which appeared in the Aug. 24 issue of *Nature*.

Finally, the researchers injected the human colorectal cancer cells into normal mice, who quickly grew tumours, and then added the protein to the cancer cells. Again, growth of colon cancer was suppressed. "These results are a good argument that this is the real thing and it is strong evidence for the protein's role in humans," Penninger said.

One of the next steps for the researchers will be to study the exact workings of the p110γ system in colon cancer, which could lead to future drug therapies that replicate or stimulate the protein's action in stopping tumour growth. The team of scientists will also investigate whether some people have a genetic mutation that causes them to not have p110γ and therefore be predisposed to colorectal cancer.

TOP 25 NAMED BY MACLEAN'S

BY SUE TOYE

WHAT DO MARSHALL McLuhan, Margaret Atwood and Glenn Gould have in common with physician Sir William Osler, Nobel laureate Sir Frederick Banting and geophysicist F. Tuzo Wilson? They all studied, taught or worked at U of T — and were among those profiled by *Maclean's* magazine in a top-25 list of Canadians who have

made a significant impact on the way people think, play and work.

The list was compiled from thousands of letters from readers across the country in response to "Who is the greatest living Canadian?" The editors wound up with a different list: 25 Canadians Who Made a Difference.

The majority of respondents named Banting, one of the Nobel-prize winning discoverers of

insulin as the clear winner. Marshall McLuhan ("the medium is the message") was also among the chosen few. His theories about mass media, communications and technology — according to his proponents — shaped the present and will continue to influence the future of media. Other U of T people profiled in the Sept. 4 issue include an economist, politician, supreme court judge and jazz musician.

Hart House Happenings

7 Hart House Circle • www.utoronto.ca/harthouse

SPECIAL EVENTS Call 978-2452

WOW 2000! Wide Open House Week, Sep. 11-15. Five days and nights of food, fun, and festivities including Wide Open House Day, Wed. Sep. 13, 11:30am-2pm and 6-8pm.

Graduate Committee Dinner Series - Oct. 25, Nov. 22, Dec. 6, Jan. 10, Feb. 14 and Mar. 7. Tickets go on sale on Mon. Sep. 18 at Membership Services. Call 978-2447 for information.

Wine Seminar Series - Nov. 30, Dec. 7 & 14 and Jan. 25. Tickets go on sale on Mon. Sep. 18 at Membership Services. Call 978-2447 for information.

ART Call 978-8398

The Justina M. Barnicke Gallery - "Eighty Year's of Student Involvement: Selections From the Hart House Permanent Collection". Opens Wed. Sep. 13 and runs to Thurs. Oct. 5. Tour of exhibition on Thurs. Sep. 28 at 7pm.

Art Committee - "Pleasures of Flesh", series featuring Jeffry Turner's "Living Art Images". Wed. Sep. 13 from 11am-2pm.

Arbar Room - Oil paintings by Terry Watkinsan. Runs to Sep. 30.

LIBRARY Call 978-2452

Writuals Literary Pub with host Ray Hsu. CD Launch Party for "Naked Walls" followed by an open mike. Come out and read! Wed. Sep. 13 from 8:30-11pm in the Arbor Room. Sign up 8pm. Licensed. No cover. Call 978-5362 for more information.

MUSIC Call 978-2452 - All concerts are free!

From the Hart - Open Stage with host, Philamene Hoffman. Come out and play! Thurs. Sep. 14 at 8pm in the Arbor Room. Sign up at 7:30pm. Licensed. No cover.

Music Committee - First open meeting is Tue. Sep. 19 at 6pm in the South Dining Room. 978-5362.

Chamber Strings - Open rehearsal on Mon. Sep. 11 at 7:30pm in the Music Room. 978-5363.

Charus - Auditions on Mon. Sep. 11, Tue. Sep. 12, Mon. Sep. 18 and Tue. Sep. 19 all beginning at 7:30pm. Sign up at the Hall Porters' Desk. 978-6315. Regular rehearsals are Wednesdays at 7pm.

Jazz Ensemble - Open rehearsals on Mondays Sep. 11 and 18 at 7:30pm in the East Common Room. Auditions on Mon. Sep. 25 at 6pm and Tue. Sep. 26 at 6pm in the East Common Room. 978-6315.

Orchestra - Open rehearsals on Thursdays Sep. 14, 21 and 28 at 7:30pm in the Great Hall. Auditions are last two weeks in September. Application deadline for Concerto Competition, open to all members of the university community, is Thurs. Sep. 21. 978-5362.

Singers - Open registration is on Mondays Sep. 11, 18, and 25 at 6:30pm in the Great Hall. Call 978-6315 for more information.

Symphonic Band - Open rehearsal is on Tue. Sep. 12 at 6:30pm in the Great Hall. Auditions follow on Sundays, Sep. 19 and 24th. 978-5363.

CLUBS & COMMITTEES - Call 978-2452

Archery - Open demonstration on Thurs. Sep. 14 at 5pm in the Range. 978-2446.

Bridge - First play date is Tue. Sep. 12 at 6:30pm in the Reading Room. Eight-week instruction courses begin Thurs. Sep. 21 at 6:30pm in the Reading Room. 946-7323.

Camera Club Open Meeting - Photographer Andrew Danson will be speaking on "Cuba", Wed. Sep. 13 at 7pm in the Music Room. Tour of the club facilities and darkrooms to follow. 946-7323.

Debating - Meets every Tuesday at 7pm and Wednesday at 4pm starting Tue. Sep. 12 and Wed. Sep. 13. Novice Training Day is on Sun. Sep. 17. Call 978-0537 for more information.

Drama - Open meeting on Wed. Sep. 20 at 5:30pm in the East Common Room. Call 978-6315 for more information.

Farm - Tickets for "Cider 'N' Sang" go on sale Mon. Sep. 18 at the Hall Porters' Desk. 978-2452.

Film Board - Open meeting and first screening is on Thurs. Sep. 21 at 6:30pm in the Music Room. Call 978-2453 for more information.

Masters' Swim - Join us for Sat. practice in Sep. and Oct. from 6:30-8:30pm in the Hart House Pool.

Recreational Athletics Committee - Open meeting is on Wed. Sep. 13 at 8am in the Committees' Room. RSVP at the Membership Services Office 978-2447.

Revalver Club - Mandatory Open Meeting is on Wed. Sep. 20 at 6:30pm in the Debates Room. 978-2446.

Rifle Club - Open meeting and safety course on Mon. Sep. 18 or Wed. Sep. 20 at either 4pm or 5pm in the Debates Room. 978-2446.

Underwater Club - Open meeting on Wed. Sep. 13 at 7pm in the Debates Room. Courses begin in October. 978-2447.

ATHLETICS - Call 978-2447

Membership Services Office Hours for September: Mon.-Thurs. from 9am-7pm. Fri. from 9am-5pm. During Sep. 11-15, Mon.-Thurs. from 9am-8pm, and Fri. from 9am-5pm.

Fall 2000 Athletics Guide and Drop-In Fitness Schedule - Check our Website at www.utoronto.ca/harthouse or pick up a copy at Hart House. Registration for classes begins Wed. Sep. 13 and must be made in person, with a membership or student card.

Lackey Renewal - New rentals for women start Mon. Sep. 11, for men, Tue. Sep. 12. Supply is limited.

Towel Service - Purchase towel service in the Membership Services Office.

HART HOUSE

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New Grad Residence

~ Continued From Page 1 ~

"It's good because the place is new and it's clean. But it's bad because of the noise. It's like a construction zone," he said. Still, he noted, in comparison to the hotel, the residence is better. "That was a hotel, this is a residence. I have many friends here. There I knew no one."

In fact, the construction delays left the building manager as much a victim of circumstance as the students. In October 1999 Greer sold his house, fully expecting that he would be living in the new residence as part of his job. As the delays continued, however, he found himself living a nomadic existence, moving to seven different apartments while waiting for the building to be finished.

"I could honestly tell the students,

'I know what you're going through' because they saw me go through it too," said Greer, who only moved into his suite at the end of August. "I have things in boxes that I still haven't unpacked yet, ones that I packed back in October."

The building, which has won numerous architectural design awards in Canada and the U.S., has a total of 120 fully furnished suites, each one housing three or four bedrooms. The building's interior is unique — no two floors are the same. Even the styles of the suites are different, Greer noted. Some are built on a single level while others are on two levels, some with bedrooms on the upper floor and others with bedrooms on the lower.

Professor Michael Marrus, dean of graduate studies, said he is delighted that the residence is now up and

running. "It's been a long time coming, but we believe this will be a very high quality statement architectural-ly, about its management and the way students are served."

In addition to the regular amenities such as laundry facilities, common rooms and places to watch television, attached to Graduate House is Spa Ha — a restaurant run by the owners of Kensington Kitchens in Kensington Market who will lease the space from SGS.

Greer noted that while the majority of the building is essentially finished, work is still being done on the seventh floor, where the windows will carry the sign University of Toronto. That is expected to be completed in November, at which time the residence will also hold its official opening.

Provost Endorses Grad Student Aid Report

~ Continued From Page 1 ~

tuition for the first four years of study. He also endorsed a stronger emphasis on graduate enrolment planning.

However, even though he supports the notion of grants for post-four students, Sedra does not feel the grant should be extended to students in their seventh year. In his written response he expressed concerns that extending the bursary beyond the sixth year might "nullify the positive effect of the incentives to [degree] completion that have been introduced [and proven to be very success-

ful] in areas where completion times tend to be longer. I think it is a more prudent use of limited central funds to direct more funding to students at an earlier point in their programs."

The university has promised that by 2004 it will commit an additional \$9.4 million per year in graduate student financial aid on top of its current expenditures. The \$5.2 million this year includes \$2.7 million for graduate fellowships plus \$2.1 million for post-four grants and \$400,000 for OISE/UT graduate students. Fellowship money will increase by another \$2.2 million in each of the next

two years and by \$2.3 million in 2003-2004.

"Providing sufficient funding for graduate students to enable them to complete their doctoral thesis in a reasonable length of time is, I think, one of the most significant things that we have done in this university for quite a while. So I'm very excited and committed to seeing this program through," said Sedra.

For the task force's full report on graduate student support and the provost's response, visit www.utoronto.ca/provost/gradfinanc/FinalMay2000/finalMay.htm.

DANKA

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Protein Discovery May Lead to New Alzheimer's Drugs

BY MEGAN EASTON

U OF T RESEARCHERS HAVE isolated a key protein involved in the degeneration of nerve cells in Alzheimer's disease and believe the discovery could lead to new drugs to treat it.

"We've found a completely unknown protein that's involved in the biochemical processing of the beta-amyloid precursor protein which causes Alzheimer's disease," said Professor Peter St. George-Hyslop, director of the Centre for Research in Neurodegenerative Diseases (CRND) and a neurologist at the University Health Network. "This opens the way for the development of drugs that will target the new protein to manipulate the process that leads to the disease."

St. George-Hyslop and his team named the new protein nicastrin after the small southern Italian village, Nicaastro, which played an important early role in the discovery of the two genes that cause aggressive early onset forms of Alzheimer's. The researchers

isolated nicastrin when they were searching for proteins that adhere to presenilin 1 and presenilin 2, the two proteins already known to be involved in Alzheimer's.

"We set out to find these new proteins because mutations in the presenilins cause Alzheimer's disease by inducing abnormal processing of the beta-amyloid precursor protein and the accumulation of a toxic derivative, amyloid beta-peptide, in the brain of patients with Alzheimer's disease," said St. George-Hyslop, lead author of the study published in the Sept. 7 issue of *Nature*.

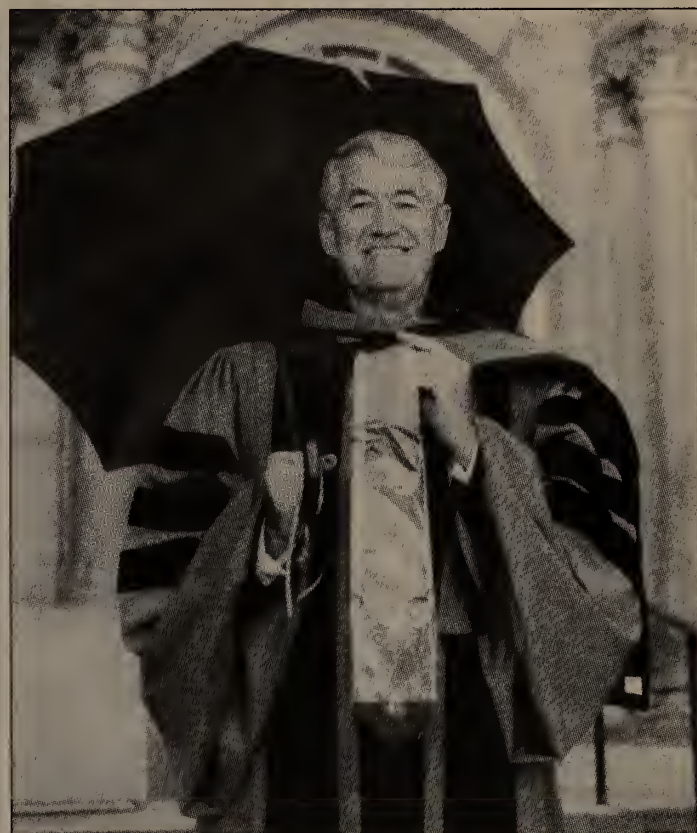
Until now, the exact mechanism by which presenilin mutations ultimately caused Alzheimer's was unclear. The researchers soon found that nicastrin binds to the beta-amyloid precursor protein and regulates the production of the potentially dangerous amyloid beta-peptide fragment. "More importantly," St. George-Hyslop said, "we discovered a way to manipulate nicastrin to either increase or decrease the production of the harmful amyloid

beta-peptide." This could lead to new treatments that will target nicastrin to prevent the overproduction of this neurotoxic protein, he added.

"Nicastrin is clearly a very important component of the cellular machinery underlying Alzheimer's and has several features which suggest that it might be used as a target for the development of new drugs for this disease," said co-author Dr. Paul Fraser of CRND.

It is not yet clear, St. George-Hyslop said, whether genetic variation in nicastrin is associated with an inherited susceptibility to Alzheimer's disease. In Canada, more than 200,000 people over age 65 have Alzheimer's disease and the Alzheimer Society of Canada estimates that more than 750,000 Canadians will develop the disease and related dementias in the next 30 years. St. George-Hyslop and his research team received international acclaim in 1995 for the discovery of the presenilin genes responsible for the most severe forms of early-onset Alzheimer's.

A GIFTED PRESIDENT



President Robert Birgeneau sports the latest additions to his U of T wardrobe, an umbrella and scarf from students at St. Mike's and a tie from Victoria, following an orientation session Sept. 5.

\$37 Million for Health Research

BY MEGAN EASTON

HEALTH RESEARCHERS AT U OF T and its affiliated institutions received more than \$37 million — about half of the total funding for all of Ontario — in the first round of grants from the newly established Canadian Institutes of Health Research (CIHR).

Health Minister Allan Rock and CIHR president Dr. Alan Bernstein announced over \$194 million in new funding for researchers across Canada Aug. 15. The grants and awards come from the March 2000 competition for funding.

"The CIHR is still in its embryonic phase," said Professor David Naylor, dean of the Faculty of Medicine. "It will be at least two years before we really start to feel the full impact of not only the

increased funding for health research in Canada but also the new structures that are being put in place to foster integrative leading-edge investigations. However, these latest announcements emphasize that the University of Toronto academic health sciences complex is off to a flying start with the new agency."

Most of the new funding is in the form of operating grants over five years. In all, CIHR awarded operating grants to 71 projects at U of T and its teaching hospitals with a total value of over \$25 million, more than any of the other university-teaching hospital research groups in Canada. The grants will support a full spectrum of health research, from biomedical to population health investigations. Other funding went to equipment and maintenance, post-doctoral

fellowships and special projects such as the HIV/AIDS clinical trials.

Originally announced in the 1999 federal budget, CIHR officially replaced the Medical Research Council in June of this year and includes a virtual network of institutes across the country, each dedicated to a specific area of research. The institutes link and support multidisciplinary groups of researchers pursuing common goals.

As well as being president of CIHR, Bernstein is director of the Samuel Lunenfeld Research Institute at Mount Sinai Hospital and professor of medical genetics and microbiology at U of T. The university is also represented on CIHR by Naylor, who was appointed to CIHR's 19-member governing council.

Campus Welcomes Birgeneau

PLANS ARE WELL UNDER WAY FOR the Oct. 12 installation of Robert Birgeneau as U of T's 14th president and the entire community will be invited to celebrate.

"The committee has worked to include all members of the university community," said Professor Paul Perron, chair of the installation committee. "Faculty, staff, students and alumni will all be involved and we are also trying to reach out to the city."

Events will take place at all three campuses from Tuesday, Oct. 10 to Thursday, Oct. 12, beginning with open houses for students, faculty and staff at both the Scarborough and Mississauga campuses on Tuesday, Oct. 10 at 10 a.m. and 1:30 p.m. respectively. At 4:30 p.m. on Tuesday, a reception with the new president will be held for staff and faculty at the St. George campus at the Great Hall, Hart House. Students at the St. George campus will have an opportunity to meet

Birgeneau at a luncheon being held at Hart House on Oct. 11 beginning at 11:30 a.m. The installation ball with faculty, staff, students, alumni and friends of the university will follow at the Westin Harbour Castle that evening.

The installation ceremony will take place at 3 p.m. on Thursday, Oct. 12 and will be broadcast live on the U of T Web site. Recognized student societies and clubs have been invited for the first time to take part in the academic procession alongside staff representatives and faculty members. Former presidents John Evans, George Connell and Robert Prichard will be among the guests at Convocation Hall. Speakers at the event include Charles Best, president of the Massachusetts Institute of Technology, and Martha Piper, president of the University of British Columbia, followed by the president's own installation address.

THE PUPIL'S PALETTE

For the past 80 years students have had a say in the Hart House art collection

BY MICHAH RYNOR

EIGHTY YEARS AGO A SMALL GROUP OF students started the Hart House art collection with the purchase of what was then considered a strange-looking painting by a young unknown named A.Y. Jackson.

Georgian Bay, November was an odd choice because Jackson's work was very unpopular with both the public and the art critics of the day who didn't know what to think of his wildly coloured canvases.

But the student members of the inaugural Hart House acquisitions committee would be proven correct in their appreciation of Jackson, who shortly afterwards achieved notoriety with the Group of Seven.

The concept of having students taking such an active part in an art gallery's collecting is still unique in Canadian colleges and universities, according to Judi Schwartz, curator for the Barnicke Gallery at Hart House, "although it has been studied for years by other institutions who consider it a great idea."

Eleven students have been voted onto the Hart House art committee every year since 1922 to decide how their portion of the acquisitions budget is to be allocated, with the steadfast mandate that it must be spent on contemporary works by Canadian artists. Today their \$10,000 budget usually translates into one or two pieces.

After visiting Toronto area galleries, the students report on what they've seen and a vote is taken on which pieces will be added to the 500 paintings and sculptures in the collection. Twice a year examples of these works are taken out of storage and displayed at the Barnicke — opened in 1983 after it became obvious to everyone that Hart House desperately needed a gallery to house these national treasures.

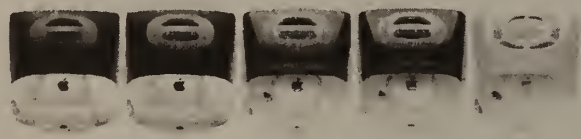
"In the beginning everything was on the walls of Hart House," says Victoria Bishop, assistant curator and herself a student in the museum studies program. Her role is to develop the shows that highlight the student collections, conduct tours and pass this

cultural legacy on, which is important because these artworks aren't known to a lot of people on campus.

"In earlier years my title would have been student keeper, which was kind of appropriate considering that Hart House had a warden," she laughs, adding that many students who serve on the committee go on to successful — and often stellar — careers in the arts.

The Sept. 13 exhibit, *The Making of a National Collection: Eighty Years of Student Involvement* (running to Oct. 5) will unveil the first-ever renovations to the Barnicke, creating the illusion that the gallery is, much like the collection itself, bigger than it was last year.

What's New At The University of Toronto Computer Shop

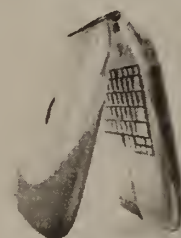


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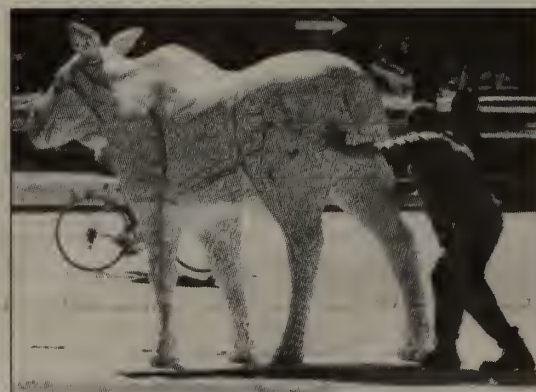
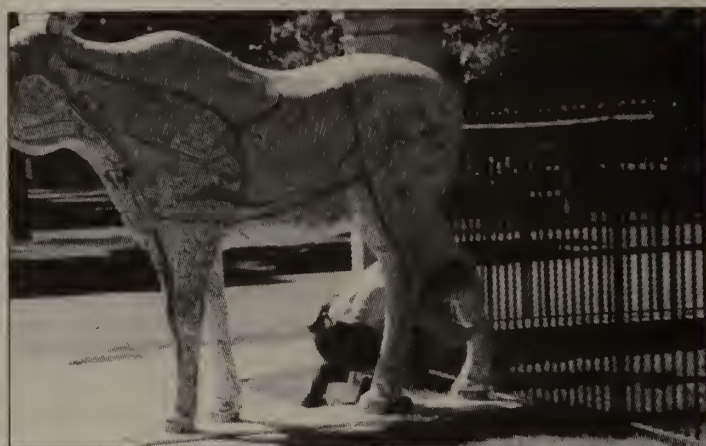
Campus police rescue stolen moose

BY KARINA DAHLIN

UOF T'S MOOSE was stolen last week. Although it was returned to its designated spot on front campus Wednesday afternoon, the wild life of frosh continued during Orientation Week and no one would take bets on the continued safety of the seven-foot tall fibre-glass sculpture.

Campus police on patrol spotted the moose around 3 a.m. Sept. 6 at Queen's Park Crescent in the company of five young males. When the police approached them, they dropped the moose and ran to nearest residence on St. Joseph Street.

So what do you do with a moose on the loose? Too heavy to carry back, too big to put in the trunk of the car, too precious to be left unguarded, the moose was padlocked to the fence. The handcuffs that police carry aren't designed for "mooscular" legs, but a lock from the bicycle patrol did the trick and



Top: Moose-shall is unlocked by campus police. Centre and bottom: A member of the city's Moose Patrol retrieves the sculpture and steers it in the right direction.

the hazing victim spent the rest of the night in disgrace.

The thieves, on the other hand, remain unnamed and St. Michael's College students may have nothing to do with the prank. That the moose is named Moose-shall

McLuhan in honour of Marshall McLuhan, the late media guru and English professor at St. Michael's, may be a coincidence.

And don't assume that engineering students were involved. It seems they were busy elsewhere. Kathleen Landon, an events organizer at the City of Toronto,

said that the moose decorated by Charlie Pacter at City Hall (the Olympic moose on the diving board) was wearing a yellow hard hat Wednesday morning.

Like most of the other moose sculptures in the city, Moose-shall McLuhan has lost its antlers. Twice, in fact. If it is spared more antics and survives the summer on campus, it will be included in the herd of city moose that goes up for auction next month.

Grad Students to Draw on Expertise at Sheridan College

Combined program in animation begins this month

BY VICTORIA HADDEN

ANOTHER INNOVATIVE PARTNERSHIP between the university and Sheridan College will teach U of T students to apply emerging animation technologies to the field of medical illustration.

Unique to Canada, the program begins this month and offers students a master of science degree in biomedical communications from U of T combined with a postgraduate certificate in 3-D animation from Sheridan College.

"Medical illustrators with advanced state-of-the-art computer animation skills are in huge professional demand and Sheridan College's new \$32-million Centre for Animation and Emerging Technologies offers the latest in cutting-edge technology," said Professor Linda Wilson-Pauwels,

director and chair of biomedical communications in the Faculty of Medicine. Wilson-Pauwels thought of the idea for the integrated approach when she noticed that five of her former graduates had opted for Sheridan's eight-month intensive animation program to enhance their skills.

The partnership will also create new research and education opportunities at U of T using advanced 3-D computer animation in such areas as surgery, medicine, pediatrics and biomedical engineering. Through this partnership Sheridan College will also expand its programs to focus on medical visualization as well as entertainment and communications.

U of T and Sheridan pioneered the first joint university and community college partnership in the province more than 30 years ago in the field of art and art history

— both programs continue to be strongly attended.

More than a decade ago a four-year theatre and drama studies program at U of T Mississauga merged with a Sheridan College diploma, providing both the academic background and practical training for graduate study, teaching and other dramatic arts careers.

Another recent partnership with Sheridan College in the joint program of communications, culture and information technology is the current key area for potential enrolment growth at UTM. Two new buildings are planned, one at UTM, the other at Sheridan's Oakville campus as part of the Ontario government's SuperBuild Growth Fund, announced earlier this year to support capital projects and increase student capacity.

COLOURING THE DARK CONTINENT

UTM anthropologist redefines her work through painting

By JUDY NOORDERMEER

BECKY SIGMON'S FACE brightens when she discusses the artwork on the walls of her office.

She points to a pastel drawing she recently completed of four youngsters playing in the Kenyan savannah. In place of the browns so common to the landscape, she has injected a burst of colours — purple trees, blue hills, a yellow and orange sky.

"I'm finding art such a powerful way of expressing myself," says Sigmon, a professor of anthropology at the University of Toronto at Mississauga.

For the past two years, practising anthropology through art has been her passion. The young figures in the drawing are not Humans but australopithecines — early hominids who roamed Africa two to three million years ago. The pastel images reflect their long arms and short stature.

"I want to do more interpretations of early hominids because I know what the proportions are like. And I know a lot of renditions of them are wrong," she says.

Africa has been Sigmon's research lab for more than three decades. A graduate of the University of Wisconsin at Madison, she joined UTM in 1969. The australopithecine era was the focus of her career for the first two decades. Her work took her to the African continent on numerous occasions and gave her a detailed understanding of early phases of human evolution.

"My interests were the beginning of humanity," says Sigmon. Her mentor at the University of Wisconsin was noted paleontologist John T. Robinson, credited with



discovering some of the earliest australopithecines in South Africa in the late 1940s and early 1950s.

For several years beginning in the late 1980s Sigmon's focus turned to how physical anthropology was studied behind the Iron Curtain. Her 1993 book, *Before the Wall Fell*, described the impact of the restriction of freedom of expression on scientists in socialist Europe. During this time she was instrumental in helping a number of European researchers travel and present outside their countries for the first time. It was her first "humanitarian" act as an anthropologist, she says.

She picked up her paint brushes and pastels after a death in the family two years ago. "I wanted to do paintings of people and the people I wanted to do were Africans."

It was a creative expression that helped shift her thinking about her role as an anthropologist, which by then had

but help them do what they have to do."

She describes the most recent phase of her career as "fieldwork dealing with symbols rather than words." Art is another way of communicating, she says.

"There have to be times when you take a break, re-evaluate. And if you are a true academic, then whatever you've learned during that period, you do something with it," says Sigmon.

She's started work on a paper she has tentatively titled *Language Without Words: A Very Human Adaptation*. Her biography of John T. Robinson has also been accepted for publication by South African University Press. And she is also looking forward to another year of teaching. Anthropology is a popular field with students, she says.

"I don't have to sell it. Everyone wants to know about themselves and about people."

STEPHEN SIMEON

THE BULLETIN Schedule 2000-2001

Beginning with the next issue, *The Bulletin* will be published on the following days:

Monday, September 25
Tuesday, October 10
Monday, October 30
Monday, November 13
Monday, November 27
Monday, December 18

Monday, January 15
Monday, January 29
Monday, February 12
Monday, February 26
Monday, March 12
Monday, March 26

Monday, April 9
Monday, April 23
Monday, May 7
Monday, May 28
Monday, June 11
Monday, June 25

DEADLINES

Advertising:

space for display advertising must be booked at least two weeks in advance of the issue in which the ad is to appear. Ad copy must be at *The Bulletin* offices no later than 10 days before the publication date.

Classified ads:

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For information about advertising in *The Bulletin*, please call 978-2106.

WANT TO KNOW WHAT'S GOING ON AT U OF T?

There's an events listing accessible from the university's Web site —
www.utoronto.ca
— where you can see what's happening on all three campuses.

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There's form you can fill out right on the Net, just select "submit an event" under events@uoft on the news and events page. Letting us know what you'd like us to post on the Web site is just a click away.

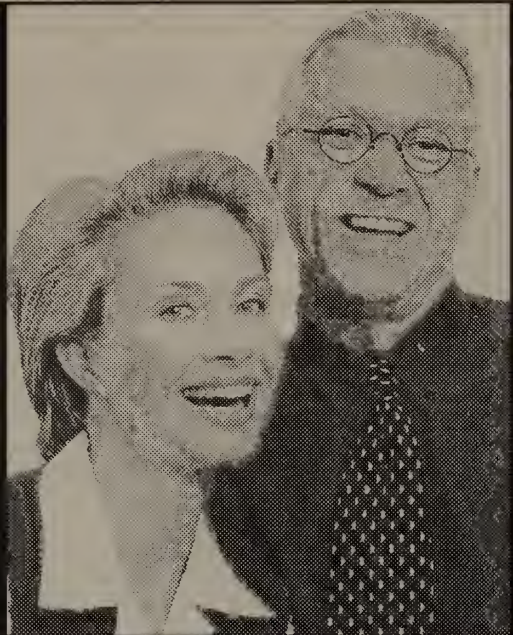
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Deadline for applications is 4:00 pm, Friday, October 6, 2000.

Applications are available at:

Woodsworth College, Student Services Office
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IN THE NEWS



University of Toronto people are in the news every day.
The following is a sampling from August and September:

Surf's up, wakeboarders

SNOWBOARDING AND WATERSKIING ENTHUSIASTS HAVE FOUND A NOVEL way of morphing the two extreme sports into a new way of challenging the water gods — wakeboarding. Peter Donnelly, a sports sociologist in the Faculty of Physical Education and Health, recently appeared on CTV News to explain the growing trend of wakeboarding. Donnelly, whose research interests include sports policy and children in high performance sports, is a water sport enthusiast and sees the phenomenon of wakeboarding as a way of rejecting mainstream water sports.

From nay days to hay days: musical activism

U OF T GRADUATE DR. JAMES ORBINSKI, WINNER OF THE 1999 NOBEL Peace Prize and first Canadian president of Doctors Without Borders, was interviewed recently by The Learning Channel as part of a panel discussion in a four-part series entitled Stand and Be Counted. In the series David Crosby of Crosby, Stills and Nash traced the roots of four decades of musical activism including the non-violent protests for civil rights in the 1960s, the "no nukes" concerts of the 1970s, Live Aid and Farm Aid in the 1980s and the current annual concerts to support a free Tibet. The series aired in August.

Soldiers' Tower in the spotlight

MORNING VIEWERS DIGESTED A BIT OF U OF T HISTORY WHEN ANN ROHMER of Citytv's Breakfast Television profiled one of the university's oldest memorials dedicated to the foot soldiers of the First and Second World Wars. Situated at the western end of Hart House and standing 143 feet tall, Soldiers' Tower is a world-renowned memorial to the 624 members of the university community who gave their lives while on active service between 1914 and 1918 and to the 557 men and women who died between 1939 and 1945.

Beatles as poetry

JAMES KIPPEN OF THE FACULTY OF MUSIC, WHO TEACHES A COURSE ON the Beatles, commented in a recent *Toronto Star* article on the Fab Four's impact on music and social trends. According to the article the impact of the Beatles is still prevalent among the young and old — some 450 titles have appeared in *Books in Print* with several more being added this fall. Lennon's lyrics and other writings are good poetry and there is really fascinating musical information in those songs," Kippen told *The Star*. Kippen will be giving a public lecture at the Royal Ontario Museum in October entitled Could the Beatles Have Succeeded Without John Lennon? during a show of Lennon's artwork that runs Oct. 5 to 15.

One-on-one with Pamela Wallin

MICHAEL MARRUS, DEAN OF THE SCHOOL OF GRADUATE STUDIES AND holder of the Chancellor Rose and Ray Wolfe Chair in Holocaust Studies, was interviewed along with Supreme Court justice Louise Arbour (who received an honorary degree from U of T in the spring) and Nuremburg trial lawyer Whitney Harris on a recent episode of Pamela Wallin Live in Conversation. The panel discussed genocide and war crimes tribunals in the context of an upcoming film that recreates the infamous Nuremburg trial in 1945.

Compiled by Sue Toye

We value your opinion ...

that's why the back page of *The Bulletin* is devoted to Forum, a place where thoughts, concerns and opinions of interest to colleagues across the university find expression. Original essays by members of the community are both welcomed and encouraged.

Faculty, staff and students are invited to submit or discuss ideas with:

STEVEN DE SOUSA, ACTING EDITOR

The Bulletin

978-7016

steven.desousa@utoronto.ca

Look forward to hearing from you!

A WORLD OF DIFFERENCE

Hard times turn alumnus into great benefactor

BY JAMIE HARRISON

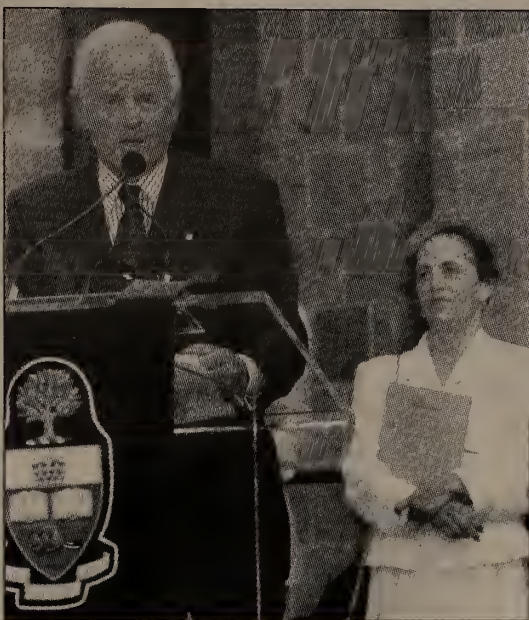
AS A HALF-DECADE OF war blighted the European landscape and the atrocities of the Nazi regime were becoming all too apparent, Peter Munk's future hung in the balance with no hint of what it might bring.

Born in Hungary, Munk, his father and grandfather fled to Switzerland in 1944 to escape Nazi persecution; the 17-year-old Munk left for Canada to stay with an uncle in Toronto. Within a few months of his arrival — speaking no English — he enrolled at U of T, paying his tuition by running a chain of Christmas tree lots.

In 1958 Munk and a partner started a company, Clairtone Sound Corp., manufacturing high-end sound systems. Both men did very well, but after a few years they fell on hard times and the business was eventually lost. Munk would go on to develop hotels and resort properties in Fiji and Australia.

Fifty-six years after arriving in Canada, the founder and chair of Barrick Gold Corporation and founding chair and chief executive officer of TrizecHahn Corporation, is giving back to the community that welcomed him during the dark days of war. Following a commitment made to the university in 1997, Munk was on hand for the opening of the centre that bears his name — U of T's Munk Centre for International Studies at Trinity College.

"I have a very special feeling of indebtedness to this



Peter Munk and University Professor Janice Stein at the opening of the Munk Centre Aug. 28.

institution," Munk said. "It was here that I learned about what the values Canadians hold dear. So, I thank you."

A 1952 graduate of the Faculty of Applied Science and Engineering, Munk is chair of the University of Toronto Foundation, a trustee of the University Health Network and a director of the World Gold Council.

The 90,000-square-foot centre is the interdisciplinary home for U of T's 10 programs specializing in international studies, promoting interdisciplinary scholarship, and faculty and student exchange.

"I am proud that my name is attached to a centre that will allow Canadians to know what globalization is all about," said Munk.

The \$21-million complex was made possible by a \$6.4 million donation by Munk, Barrick Gold Corporation and TrizecHahn Corporation, a \$1.2 million donation by Vivian and David Campbell and a \$2.5 million donation by communications executive Edward S. "Ted" Rogers to build the new John W. Graham Library at the centre.

A virtual neophyte in the mining industry, Munk would become an industry titan, buying a number of properties in Canada, the U.S., South America and Tanzania that were thought to be "mined out." His hunches were correct and the mines made Barrick the world's premier gold producer.

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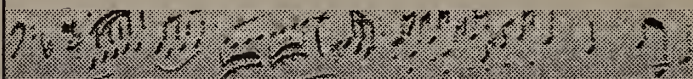
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Housing for New Faculty

The University has a faculty housing program for new faculty, and there is one apartment still available for September. The apartment is a newly renovated two bedroom apartment unit located on Spadina Ave. The monthly housing charge is \$1,360. Parking is available for an extra charge. Please call the Real Estate Department at 946-5671 or e-mail newfaculty.realestate@utoronto.ca



University of Toronto Library

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Digging for Medals Down Under

BY JOAN GRIFFIN

FROM THE POOL TO THE BOAT, to the field and the track, U of T's presence will be felt at this year's Summer Olympic Games beginning Sept. 15 in Sydney. Students, faculty, staff and alumni will represent Canada as athletes, coaches, researchers, media commentators, officials and observers.

Canada's official team has 309 athletes, 17 with ties to the university. They will compete in more than 20 events in six sports: track and field, canoe and kayak, field hockey, rowing, swimming and synchronized swimming.

Two U of T coaches will be sharing their expertise, one on the track and the other in a broadcast booth. Carl Georgevski, head track and field coach, will guide Canada's jumps competitions while swim coach Byron MacDonald will be on hand as a commentator for CBC's swimming coverage.

Five members of the U of T community will represent Canada in athletic events including the prestigious men's 4x100-metre relay, the grueling 50-kilometre race walk and the discus. Foy Williams, a former Varsity Blues sprinter and Canadian Inter-university Athletic Union athlete of the year, will compete in her first Olympic Games in the 400- and 4x400-metre relay.

Three other athletes developed

by Georgevski and his coaching staff are also Sydney bound: Martha Adusei in the 100- and 4x100-metre relay; Naabiam Salifu in the 4x100-metre relay and Jason Gervais in the discus throw. The fifth U of T athlete is 26-year-old Arturo Huerta who will compete in the 20- and 50-kilometre



race walks before

joining the undergraduate program in the Faculty of Physical Education and Health (FPEH).

Fourth-year engineering student Robin D'Abreo will join the men's field hockey team while Carrie Lightbound (arts and science) and Atilla Buday (FPEH) will compete in kayak and canoe events.

One of U of T's largest contingents is also one of Canada's best medal hopes. Led by third-year medical student and three-time world lightweight pairs champion, Emma Robinson, the Canadian rowing team has an excellent chance of earning several medals. Robinson and fellow rowers Dorota Urbaniak and Fiona Milne (both U of T alumni) and graduate student

Chris Taylor will compete in lightweight pairs and eight with cox.

Robinson and her long-time rowing partner, Theresa Luke, have been a strong pairing for several seasons but did not compete together most of last year due to illness and injury.

The pool events could

prove to be the biggest drawing card for the Games, prompted by the new "shark" swim suit that has energized aquatic competition.

U of T swim coach and CBC commentator Byron MacDonald likes the new suit. "It really does increase your buoyancy," he said. "We'll have to see what the times are like because it's already a fast pool." Jennifer Button, a third-year FPEH student, is hoping for a top eight finish in one of her many events: the 100- and 200-metre butterfly, the 4x200-metre free relay and the 400-metre medley relay. "She's taken this past year to train and prepare for the Olympics, I think she'll do well," said MacDonald, who also coaches Button.

Television viewers will get a rare glimpse inside the Games through Button's eyes — she will take a hand-held camcorder with her throughout the Games to create a diary of her experience. Button will share her experience with U of T alumna Marianne Limpert, graduate student Craig Hutchison and club swimmer Kyle Smerdon. Also in the pool is Claire Carver-Dias, a student at U of T at Mississauga and a member of the synchronized swimming team.

With students and alumni so active in the Games, it's not surprising that FPEH researchers will also take an active role during the event. Professors Margaret MacNeill and Peter Donnelly will conduct fieldwork on the development of Canadian identity at the Olympics by examining the contribution of elite sport to Canadian heritage. Their research will focus on the Canadian swim team and three issues facing them — swimsuit technology, drug use and the process of selecting female coaches.

Meanwhile, Professor Bruce Kidd, dean of the faculty and a former Olympian himself, will be recording impressionistic accounts of the Games and its services for the Games' final report to the International Olympic Committee.

A KIDD AND HIS DIARY

MOST DIARIES ARE MEANT to be kept secret, but Bruce Kidd will share his with the world.

Kidd, dean of the Faculty of Physical Education and Health and a member of the Toronto 2000 Olympic Bid Committee, will file daily impressions of the event for the Games' final report to the International Olympic Committee. As chair of the legacy subcommittee for the Toronto bid, Kidd will look at the usefulness of the Olympic Village and the effectiveness of the transportation system while talking to Australians about their overall impressions.

"I also want to attend a court of arbitration for sport, should one be convened," Kidd said. The court hears issues of contention that arise during the Games, like the stripping of snowboarder Ross Rebagliati's gold medal when he tested positive for marijuana use in 1996. "I hope to sit in on a case regarding the shark suit," he said.

Students enrolled in Kidd's Olympics course will also benefit — he and graduate student Cora McCloy will run the course via speaker phone, allowing students to be part of the Olympics in a way previously unknown at U of T.

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FIVE RING CIRCUS

Saying no to Toronto's Olympic bid

By HELEN JEFFERSON LENSKEYJ

WITH THE TREND TOWARDS GLOBAL economic restructuring, universities in North America, Europe and Australia have increasingly become corporate entities and their marketplace connections include "partnerships" with the Olympic industry. In Toronto, the committee bidding for the 2008 Summer Olympics — TOBid — includes university presidents, administrators, members of governing councils, coaches of university sport and others with university affiliations. In Sydney, site of the 2000 Olympics, the vice-chancellor of the University of New South Wales saw fit to spend \$245,000 to purchase a corporate suite at the Olympic Stadium during the Games, largely as a public relations gesture to reward past corporate donors and to encourage future generosity. And there is evidence that Australian academics who speak out against the Olympic industry, the government or the university administration, risk disciplinary action. If I were employed at an Australian university, I would probably experience a very chilly administrative response to my new book, *Inside the Olympic Industry: Power, Politics and Activism*.

The influence of the Olympics on universities — and on entire communities — extends beyond the commercial imperative. A pseudo-religious mystique surrounds all things Olympic, with metaphors such as "Olympic spirit," "Olympic family," "Olympic movement" and "Olympism" lifting the Games out of the realm of more routine hallmark events such as world fairs and more ordinary urban megaprojects such as waterfront redevelopments. Equally important, this discourse provides ready labels for Olympic critics — those unfeeling, unpatriotic naysayers who insist on bringing politics into sport and who (allegedly) don't care about the years of sacrifice made by young athletes for the privilege of representing their country and fulfilling their Olympic dreams. The indisputable fact that the everyday problems of disadvantaged urban populations are exacerbated by hosting the Olympics (or any other hallmark event) is largely ignored — clearly the dreams of homeless people are not the stuff of "Olympic spirit" rhetoric. And the notion that sport and politics are separable, and should remain that way, is both outdated and naive.

Metaphors such as Olympic movement, Olympic family and Olympic spirit hide the fact that organizing and hosting the Olympic Games is an *industry* and not a lifestyle, an extended family or a religious cult. Just as critical sport scholars renamed the fitness "movement" the fitness "industry" when it became clear that profit-making was its major goal, a few critical Olympic scholars, and many community critics, have

adopted the same term. In the face of Olympic hegemony, however, it is particularly difficult for Toronto critics to move public discourse away from urban and national chauvinism and towards the more mundane matters of homelessness, unemployment and poverty.

TOBid members and Toronto politicians, while not exactly welcoming critics such as the Bread Not Circuses Coalition and Kirkland Lake/Adams Mine group, now characterize them as citizens exercising their democratic right to protest; ironically, a democratic right that their Australian counterparts are currently being denied as a result of draconian laws that have imposed a state of emergency on Sydney. Aborigines and their supporters, environmentalists, advocates for homeless and low-income people, and anti-corporate protesters no longer

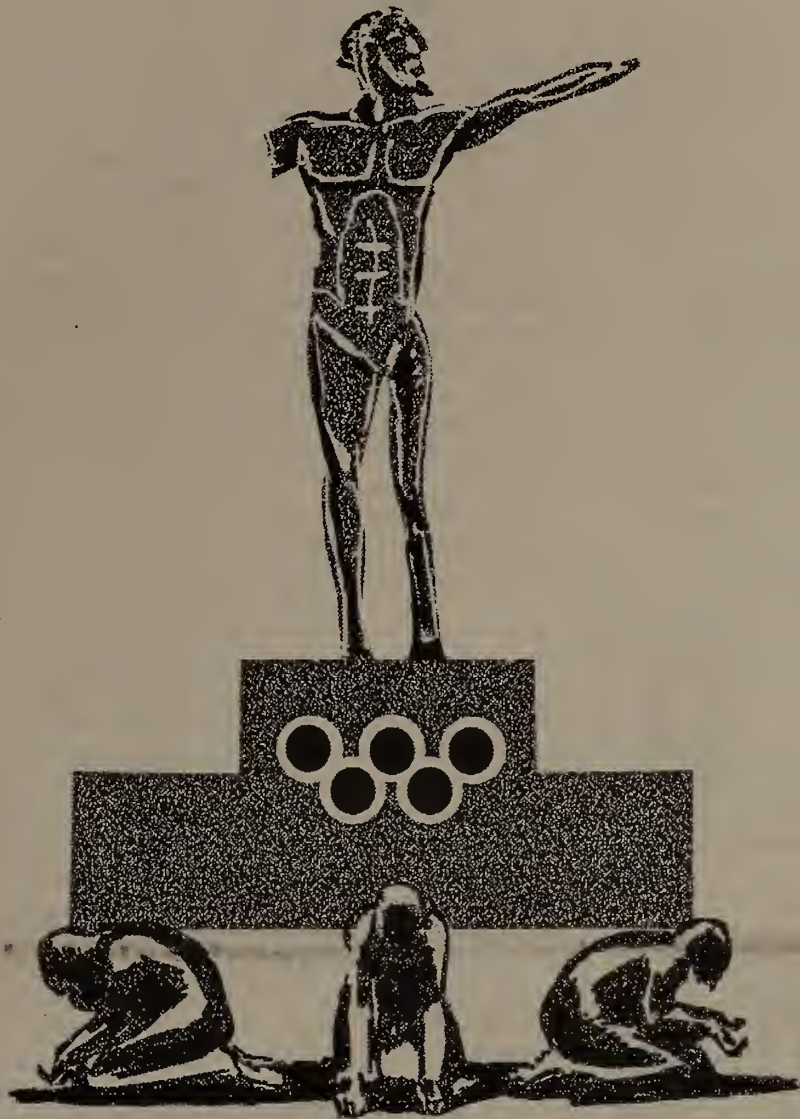
have the right to peaceful assembly in Sydney's central business district or near Olympic venues, with thousands of police, security guards, and now the country's troops, mobilized to enforce the law — but not to enforce it equally. For example, although there are bans on the distribution of (left wing) "political" flyers in all Olympic areas, a conservative Christian group was granted permission to give out over a million religious tracts promoting its equally "political" agenda.

These are not simply the actions of a right-wing state government — in fact, New South Wales has had a Labour government for several years. (It should be noted that Ontario is highly unlikely to have an NDP government by 2008 and that progressive voices on city council are a very small minority.) The IOC requires the host city to ban protests near Olympic venues and this prohibition fits well with the host city's goal of presenting a "world-class city" image to visitors and the international media, in order to reap the promised Olympic benefits of increased tourism, international investment, economic growth and so on — an end achieved in part by removing protesters and homeless people from public view.

Toronto council is taking a similarly aggressive approach to the over-policing of public spaces and the suppression of dissent, with its targeted police program, the use of pepper spray and the deployment of mounted police at protest rallies. In 1999 one of the official rationales for Toronto's Community Action Policing campaign, largely aimed at homeless people, panhandlers and squeegee kids, was to "reassure tourists." It was just announced that Toronto police chief Julian Fantino will attend the Sydney Olympics to observe that city's policing and security arrangements — hardly an appropriate model for Toronto to follow.

But there are important lessons to be learned from the Sydney Olympic experience. To be successful the Olympic industry requires the suppression of human rights and civil liberties, at least for the duration of the Games. And it requires all levels of government to give generously to what Ralph Nader recently termed "corporation welfare," while putting health, affordable housing and education low on their list of spending priorities. The recent record of Toronto council and the Ontario government indicates that Toronto is being groomed to be the perfect Olympic host city. This should be a cause for concern among all caring citizens.

Helen Jefferson Lenskyj is a professor at the Ontario Institute for Studies in Education of the University of Toronto



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UNIVERSITY OF TORONTO BULLETIN — 12 — MONDAY, SEPTEMBER 11, 2000

BOOKS



Making a Difference: The Kennedy Family and the Story of Mental Retardation, by Edward Shorter (Temple University Press; 249 pages; \$74.50 US cloth, \$22.95 US paper). Today people with mental retardation are an integral part of the larger disabilities scene. Most live in group homes or are otherwise cared for in human settings far removed from the grim institutions to which they were once relegated. This revolution did not happen accidentally — it happened in part because of the Kennedy family. Under the leadership of John F. Kennedy's sister Eunice Shriver, the Kennedys translated social concern into a concrete policy agenda that transformed the lives of millions of individuals.

Culture, Citizenship and Community: A Contextual Exploration of Justice as Evenhandedness, by Joseph H. Carens (Oxford University Press; 296 pages; \$116 cloth, \$39.95 paper). This book contributes to contemporary debates about multiculturalism and democracy by exploring the similarities and differences between the claims of immigrants, national minorities, aboriginals and other minorities. It argues that liberal democrats should provide recognition and support for minority cultures and identities, using examples from a number of different societies to show how theorists can learn about justice by reflecting on actual practice.

Solidarity Blues: Race, Culture and the American Left, by Richard Iton (University of North Carolina Press; 384 pages; \$55 US cloth, \$18.95 US paper). A number of arguments have been made to explain the weakness of the American left, including a preference for individualism, the effects of prosperity and the miscalculations of different components of the left. But these arguments overlook a crucial factor — the powerful influence of race upon American life, this book contends; it argues that the failure of the American left lies in its inability to come to grips with the centrality of race in the American experience. Placing the history of the American left in a comparative context, the book broadens the definition of left to include not just political parties and labour unions but also public policy and popular culture.

The Triumph of Psychopharmacology and the Story of CIMP, edited by Thomas A. Ban, David Healy and Edward Shorter* (Animula Publishing House, Budapest; 375 pages; \$20 US).

By the end of the 1970s pharmacotherapy had become the primary form of treatment for mental illness. The psychopharmacologic approach replaced the old paradigms in psychiatry and would henceforth dominate psychiatric practice, education and research. This volume provides eyewitness accounts of the discipline of psychopharmacology during its initial triumph in the 1970s — first-person memoirs from over 70 contributors to the field.

Sustainable Use of Hawksbill Turtles: Contemporary Issues in Conservation, by N. Mrosovsky (Northern Territory University, Darwin; 107 pages; \$15 US). This controversial book discusses sustainable use approaches to conservation, using the Cuban hawksbill turtle program as the main example. The book, illustrated by the case of Cuba's proposal to the convention on international trade in endangered species of flora and fauna, together with remarks about whales, rhinos, elephants, crocodiles and hutias, also provides a critique of the International Union for the Conservation of Nature and Natural Resources red listing process for designating the risk of extinction of a species.

Encyclopedic Dictionary of Semiotics, Media and Communication, edited by Marcel Danesi (U of T Press; 400 pages; \$60 cloth; \$22.95 paper). Semiotics, media studies and communications studies are closely interlinked fields — semiotics, the science of signs, looks at how humans search for and construct meaning; communications studies is concerned with how meaning is conveyed; and media studies considers the ways in which messages are transmitted and received. This dictionary is designed to help students and general readers unlock the significance of the terminology and jargon commonly used in these fields.

The Sounds, Forms and Uses of Italian: An Introduction to Italian Linguistics, by Gianrenzo P. Clivio and Marcel Danesi (U of T Press; 248 pages; \$50 cloth; \$21.95 paper). This book explains complex linguistics ideas in a logical, succinct and easy to understand style. Core notions such as phonetics, phonology, morphology, syntax, semantics, discourse and variation are treated in detail, using carefully selected examples. The Follow-Up Activities section at the end of each chapter provides a blend of review and application, with questions that require thoughtful reflection and invite the possibility of further research.

LETTERS



INJUSTICE KNOWN IN FACULTY HIRING

Think back to 1990-1991. The department of physics was badly in need of measures to attract more women and minority faculty. This need had been pointed out in a tart observation by the external examination committee a few years before (which included Robert Birgeneau). Nevertheless the need was not felt by all the faculty; a very few far-sighted professors took the lead.

Two of them introduced a motion to establish a departmental committee to improve openness to women applicants. This was passed. Two others tried to extend the committee's mandate to include openness to applicants from visible minorities, but this did not pass.

The faculty members were J.D. Prentice, Pekka Sinervo, John Sipe and K.Y. Chun. They must all have been glad to see such progress as has been made since 1991 in overcoming the white-male dominance that used to deform our faculty ranks.

It is a melancholy irony that the dissension of recent months has led Professor Sinervo to take the administrator's posture that injustice has never been known in the awarding of faculty positions — that all has always been for the best in the best of all possible universities.

There *was* a problem, as Professor Sinervo known only 10 years ago and has not forgotten. We are moving to overcome it.

Let him and Dr. Chun join as allies in the effort.

CHANDLER DAVIS
MATHEMATICS

LETTERS DEADLINES

SEPTEMBER 15 FOR SEPTEMBER 25
SEPTEMBER 29 FOR OCTOBER 10
OCTOBER 20 FOR OCTOBER 30

Letters may be edited for brevity or clarity and should not exceed 500 words. When submitting letters, please include a telephone number and, if possible, an e-mail address. Please forward to Ailsa Ferguson, associate editor, *The Bulletin*, 21 King's College Circle; phone, 978-6981; fax, 978-7430; e-mail, ailsa.ferguson@utoronto.ca.

VICTORIA UNIVERSITY in the University of Toronto



PRESIDENT

Victoria University, founded in 1836, is a federated university in the University of Toronto, with historical ties with the United Church of Canada. It is composed of an arts and science college, Victoria, and a theological college, Emmanuel, and is governed by a Board of Regents and an academic Senate.

Applicants and nominations are invited for the post of President for a term of five years (which may be renewed) commencing on July 1st, 2001.

As chief administrative officer and Vice Chancellor, the President is responsible for overseeing the general operations of the University, and is supported by a principal of each college, a registrar, a bursar, and other academic and administrative officers.

Key elements of the position are: leadership in fostering academic excellence; ability to represent Victoria effectively in the complex institutional and academic structures of the University of Toronto; commitment to a collegial style of leadership; practical involvement in the business affairs of Victoria University; and representation of Victoria in public, alumni and institutional relations, including fundraising.

Candidates should possess a good balance of scholarly and administrative qualifications.

Applications and nominations will be received until November 15, 2000, and should be sent to:

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EVENTS



LECTURES

Domestic and Regional Dimensions of Vietnam's Economic Restructuring.

MONDAY, SEPTEMBER 25

Do Duc Dinh, Institute of World Economy, Hanoi; visiting chair in ASEAN and international studies. 208N Munk Centre for International Studies, 1 Devonshire Place. Register by phone, 946-8997, or e-mail, munk.aps@artsci.utoronto.ca.

COLLOQUA

Ant Navigation: Mini Brains, Mega Tasks, Smart Solutions: A Multidisciplinary Study in Neurobiology.

WEDNESDAY, SEPTEMBER 13

Prof. Rutiger Wehner, University of Zurich. 2018 Sidney Smith Hall. 4 p.m. *Psychology*

Adaptive Dataflow: Eddies and Rivers.

TUESDAY, SEPTEMBER 19

Prof. Joseph Hellerstein, University of California at Berkeley. 1105 Sandford Fleming Building. 11 a.m. *Computer Science*

What Does the Hippocampus Do? Cognitive and Neural Mechanisms That Underlie Episodic and Declarative Memory.

WEDNESDAY, SEPTEMBER 20

Prof. Howard Eichenbaum, Boston University. 2108 Sidney Smith Hall. 4 p.m. *Psychology*

Environmental Photochemistry in Water.

FRIDAY, SEPTEMBER 22

Prof. Donald Crosby, University of California at Davis. 158 Lash Miller Chemical Laboratories. 3:30 p.m. *Chemistry*

SEMINARS

Recent Trends in the Philosophy of Science.

WEDNESDAY, SEPTEMBER 13

Prof. James Brown, Philosophy. 968 Mt. Sinai Hospital. Noon. *Samuel Lunenfeld Research Institute*

Cortical-Hippocampal Networks: System Analysis of the Brain.

WEDNESDAY, SEPTEMBER 19

Prof. Howard Eichenbaum, Boston University. 968 Mt. Sinai Hospital. Noon. *Samuel Lunenfeld Research Institute*

Regulation: The General Principle and Examples.

WEDNESDAY, SEPTEMBER 20

Dr. Mark Ptashne, Memorial Sloan Kettering Cancer Center. Ben Sadowski Auditorium, Mt. Sinai Hospital. Noon. *Samuel Lunenfeld Research Institute*

MEETINGS & CONFERENCES

From Emancipation to Restitution: Jews in German Society and Politics, 1800-2000.

TUESDAY, SEPTEMBER 12

A one-day international symposium. Sessions in the Munk Centre for International Studies.

Session I: Emancipation, Gender and German *Bildung*. Beyond Emancipation: The Feminization of German Judaism in the 19th Century, Maria Baader, Columbia University; School and Synagogue: Agents of Jewish Embourgeoisement? Simone Lässig, Technische Universität Dresden. 8:45 to 10 a.m.

Session II: Occupying New Social Spaces: Migration and Reform. The Migration and Settlement of Jews in Saxony, 1834-35 to 1933, Solvejg Höppner, Universität Leipzig; Jews, Anti-Semites and Lifestyle Reform Movements in Pre-1914 Germany, Thomas Adam, U of T. Moderator: Jacques Kornberg, U of T. 10:45 a.m. to 12:15 p.m.

Session III: Jews and Their Aristocratic and Bourgeois Antagonists. Defending *Deutschtum* in the Provinces: Noble and Bourgeois Anti-Semites, James Retallack, U of T; German Nobles, the "Jewish Question" and the Resistance to Hitler, Eckart Conze, Universität Tübingen. Moderator: David Novak, U of T. 2 to 3:30 p.m.

Session IV: The Holocaust, Representation and Restitution. Literary Visions of Contemporary German Jewish Identities: Rafael Seligmann and Barbara Honigmann, Jeffrey Peck, York University; After Auschwitz: Representation, *Wiedergutmachung* and the National Project, Willi Goetschel, U of T. Moderator: Michael Marrus. 4 to 5:30 p.m.

Session V: Reflections: From Emancipation to Restitution. Reflections on Sessions I and II, Michal Bodemann, U of T; Reflections on Sessions III and IV, Larry Eugene Jones, Canisius College, Buffalo. 5:30 to 6:15 p.m. Further information: <http://www.chass.utoronto.ca/german/symposium9.html>.

Planning & Budget Committee.

WEDNESDAY, SEPTEMBER 13

Council Chamber, Simcoe Hall. 5 p.m.

Hungary Through the Centuries: A Millennial Conference.

FRIDAY, SEPTEMBER 22 AND

SATURDAY, SEPTEMBER 23

Sessions in Carr Hall, University of St. Michael's College, 100 St. Joseph St.

FRIDAY, SEPTEMBER 22

Session 1: The Beginnings of the Hungarian State. Hungary's Conversion and the Foundation of State, László Veszprémy, Institute of Military History, Budapest; The Political and Diplomatic Aspects of the Rule of Andrew I and of Béla, 1046-1063, Zoltan Kosztolnyi, Texas A&M University. 9:20 to 10:40 a.m.

Session 2: From the Renaissance to the 18th Century. The Nature of Royal Power in the Age of Matthias Corvinus, László Domonkos, Youngstown State University; Consequences of the Ottoman Rule in Hungary: The 16th and 17th Centuries, Géza Pálffy, Hungarian Academy of Sciences; Habsburg Rule in the 18th Century, János Barta. 11 a.m. to 12:20 p.m.

Session 3: The 19th Century: Art and Migrations. The Representation of National History in Hungarian Painting, Lilla Szabó, Hungarian National Gallery; Migrations to and From 19th-Century Hungary, Tibor Frank, Budapest.

Session 4: The 19th Century: Hungary and Austria. The Military Chances of the War of Independence of 1848-49, Róbert Hermann, Institute of Military History, Budapest; Economic Relations Between Austria and Hungary During the Dualist Era, Scott Eddie, U of T.

SATURDAY, SEPTEMBER 23

Session 5: The 19th Century and the Turn of the Century. The Modernization of Hungary's Educational System Before World War I, János Mazsu, University of Debrecen; Hungarian-American Political Contacts Before and During World War I, Tibor Glant, University of Debrecen. 9 to 10:20 a.m.

Session 6: The 20th Century: Hungary and the World Wars. Hungary in World War I, Peter Pastor, Montclair State University; Hungary in World War II, Sándor Szakály, Institute of Military History, Budapest. 10:40 a.m. to noon.

Session 7: The 20th Century: The Communist Era. Hungarian Workers and the Communist State, 1948-1990, Mark Pittaway, Open University, U.K.; Fractions and Tendencies Within the Hungarian Communist Party in the Kádár Era, György Péteri, Norwegian University of Science & Technology. 2 to 3:20 p.m.

Session 8: The 20th Century: Questions of Survival. Progress or National Suicide? The Debate Over Family Planning in Hungary to 1945, Béla Bodó, University of Oklahoma; Hungarians Beyond the borders: A Case of Study of Hungarians in Romania, 1919-1990, László Diószegi.

Canadian Law & Economics Association Conference 2000.

FRIDAY, SEPTEMBER 22 AND

SATURDAY, SEPTEMBER 23

Keynote address: Community and Legal Contract Mechanisms in Medieval Europe, Prof. Avner Greif, Stanford University; John M. Olin lecture in law and economics. Sept. 22, Bennett Lecture Hall, Faculty of Law Library, 78 Queen's Park, 1 p.m. to 2:30 p.m. Sessions: Trade, Biotechnology & the Environment; Women, Work & Family; Norms & Evolution in Bankruptcy & Criminal Law; Empirical Studies of the Legal System; Empirical Studies of Bankruptcy; Family Law; International Trade & International Law; Lawyers & Legal Services; Law & Development; Critiques of Law & Economics; Efficiency, Mergers & Competition; Corporate Governance; Capital Structure; Monopolistic Practices. Falconer Hall or Flavelle House, Faculty of Law. Information: 978-6767; e-mail: kristin.demuth@utoronto.ca.



MUSIC

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THURSDAY, SEPTEMBER 21

Great Lakes Guitar Duo: Steven Thachuk and Ken Meyer. Walter Hall. 12:10 p.m.

PLAYS & READINGS

U of T Bookstore Series.

TUESDAY, SEPTEMBER 12

Perennial/Canada celebrates its first anniversary with Barbara Gowdy, Bonnie Burnard, Catherine Bus, Andrew Pyper, Rosemary Sullivan and Eliza Clark. Hart House Theatre. Reception, 6 p.m.; reading, 7:30 p.m. Tickets \$20 reception, \$5 reading.

THURSDAY, SEPTEMBER 14

Thrill night with Phillip Margol reading from *Wild Justice*, Chuck Konkel from

Evil Never Sleeps, Ken Oppel from *The Devil's Cure* and Gail Bowen from *Burying Ariel*. George Ignatieff Theatre. 7:30 p.m.

FRIDAY, SEPTEMBER 15

Brian Johnson reads from *Brave Films*, *Wild Nights* and Charles Foster from *Stardust and Shadows: Canadians in Early Hollywood*. George Ignatieff Theatre. 7:30 p.m.

THURSDAY, SEPTEMBER 21

Margaret Elphinstone reads from *The Sea Road* and Steven Manners from *Ondine's Curse*. Hart House Library. 7:30 p.m.



EXHIBITIONS

UNIVERSITY OF TORONTO ART CENTRE

A Dream of the Past.

TO SEPTEMBER 22

Pre-Raphaelite and Aesthetic Movement paintings, watercolours and drawings from the Lanigan Collection, supplemented by works from other galleries and private Toronto collections. Gallery hours: Tuesday to Friday, noon to 6 p.m.; Saturday, noon to 4 p.m.

U OF T AT MISSISSAUGA

Logo City

TO OCTOBER 29

Campus-wide exhibition at U of T at Mississauga with artists from the Greater Toronto Area, southern Ontario and New York whose work makes reference to urban sign structures such as banners, large-scale lettering, backlit billboards and inflatable signs.

JUSTINA M. BARNICKE GALLERY HART HOUSE

The Making of a National Collection: 80 Years of Student Involvement.

SEPTEMBER 13 TO OCTOBER 5

Selections from the Hart House Permanent Collection. Both galleries. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday and Sunday, 1 to 4 p.m.



MISCELLANY

Gaelic Psalms Workshop

SATURDAY, SEPTEMBER 16

For all who want to learn about and sing the Scottish Gaelic psalms. Informal and educational, no prior experience required. 206 Alumni Hall, St. Michael's College. 1 p.m. *Celtic Studies*



DEADLINES

Please note that information for Events listings must be received in writing at The Bulletin offices, 21 King's College Circle, by the following times:

Issue of September 25, for events taking place Sept. 25 to Oct. 10: MONDAY, SEPTEMBER 11.

UNIVERSITY OF TORONTO

THE BULLETIN

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A LASTING IMPRESSION

A colleague remembers Claude Bissell, president of U of T from 1958 to 1971, who died June 21

By ERNEST SIRLUCK

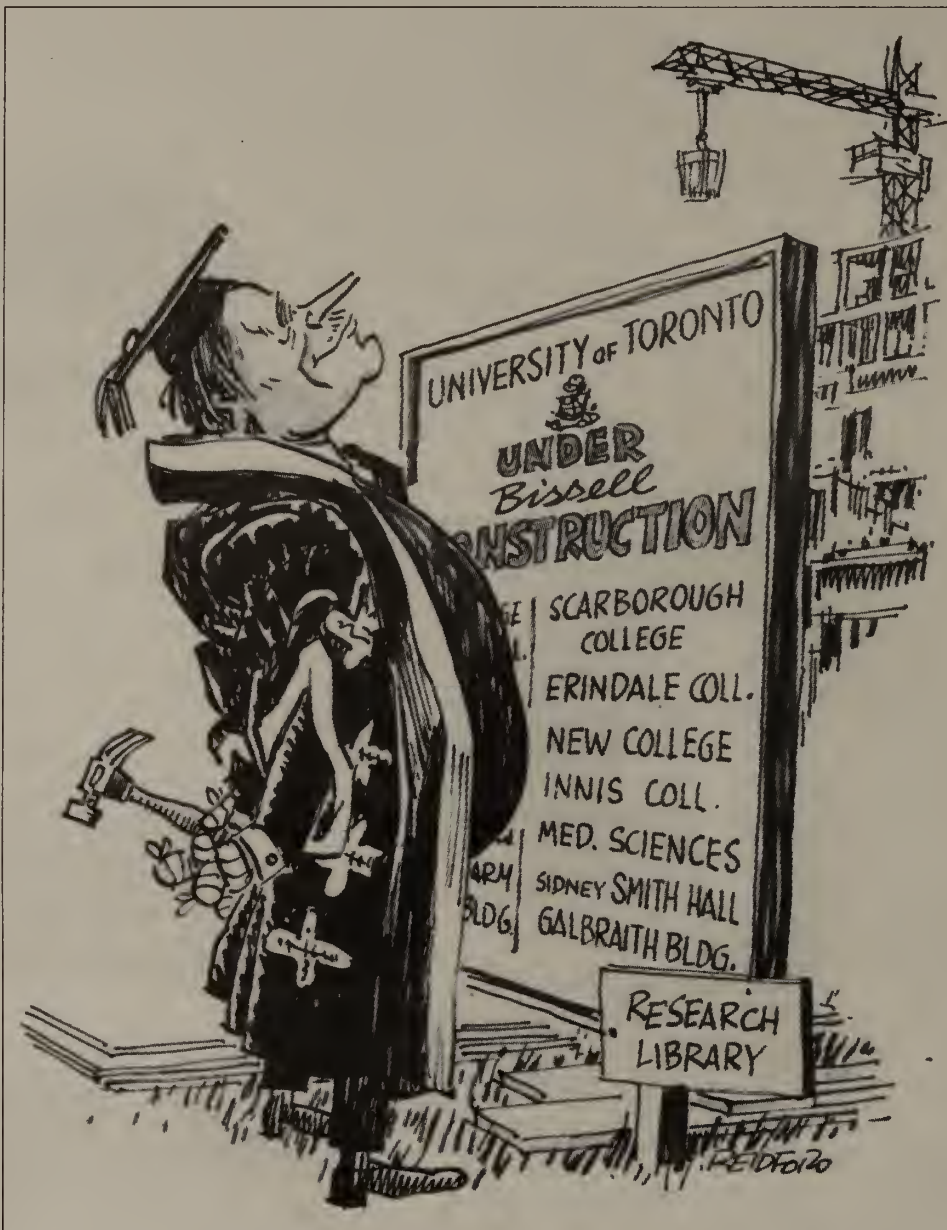
I FIRST MET CLAUDE IN THE FALL of 1941 when he returned from Cornell to teach in the English department, where I was a graduate student. We saw each other at work, socially, and in the Canadian Officers Training Corps, where we trained three times a week for a fortnight at Camp Niagara. In November 1942, we were shipped to the notorious officers training camp in Trois Rivières, where, as Claude later wrote, "grim expectations were grimly fulfilled." After commissioning and further training at Camp Borden, we were sent to different regiments in England, but served in the same division in Normandy and throughout northwest Europe. This was a year of very intense experience, which gave Claude increased boldness and determination, later to be reflected in the conduct of his administration.

After the war he stayed in England for a year to teach in Khaki College and get married; he returned to University College, with Christine, his beautiful Scottish bride, in 1946, and we were assigned to the same office in the Cloister (I was then an instructor). There was no friction between us in this sharing of space, but the occasions when my wife had to be away from home and I therefore had to bring our German shepherd to the office were a partial exception. Freya was an affectionate dog, and when Claude opened the office door in my absence she would greet him with what he described as "alarming enthusiasm."

The next year I left for the University of Chicago, but we met frequently during the following 15 years as he was advancing through the series of administrative appointments which culminated in 1958 in the presidency of U of T. Two years later he came to Chicago to suggest that I return to Toronto to prepare to succeed Arthur Woodhouse as head of the English department. I was glad to be wanted by my old university, but told him that I was happy in one of the world's greatest universities. The next year he wrote to say that Andrew Gordon would soon finish his term as graduate dean, just as the province was anticipating a large expansion of undergraduate enrolment which would require more teachers and therefore a considerable expansion of graduate work, and he'd like to come to Chicago to explain why I should succeed Gordon. He cleverly brought Christine with him, and the four of us had so good a time that it was hard to be cold-blooded about his proposal. The Bissells' skillfully blended appeal to duty, opportunity, and affection was irresistible, and the next year we arrived back in Toronto.

IT WAS A TIME OF GROWTH AND HIGH MORALE, AND Claude's administration was correspondingly buoyant, as can be seen in the proliferation of new academic units and administrative entities, most of which continue today. He brought some *elan* to his social duties, and 93 Highland Ave. became very well known on campus, not only for the formal entertainments which he regarded as integral to his role but also for the high-spirited parties he and Christine often gave; among many others I particularly recall one to welcome the McLuhans back from Fordham and a costume ball to send the Sirlucks off to Manitoba.

One of Claude's dearest hopes had long been to build a worthwhile library at U of T, which was pathetically deficient in library resources. He had got a long way in this before my



return, with an accepted planning report and tentative approval by the Board of Governors. In our discussions in Chicago I had pointed out that the new enrolment projections and the ambitions for graduate studies rendered the planning numbers obsolete; that the horizon needed to be at least 50 years, rather than the 25 used in the report; and that the goal should be an addition to our holdings of five million volumes, rather than the million planned. Claude was startled

IT WAS A TIME OF GROWTH AND HIGH MORALE AND CLAUDE'S ADMINISTRATION WAS CORRESPONDINGLY BUOYANT

but excited, and promised to support my suggestion if I could get it through the senior deans committee, which in due course I did; how he persuaded the board to agree I don't know, but I suspect they took it as an "academic" projection which would never be realized. In the event, the board's property committee tried to take advantage of Claude's absence on sabbatical to shuffle it off, but by that time it had considerable momentum, and his dream materialized as one of the best libraries in North America.

He took other risks: in founding new colleges; in supporting the establishment of interdisciplinary centres and institutes (and indeed in the whole matter of elevating graduate

work and research into an equal role with teaching in what had theretofore been an essentially undergraduate university); in promoting the development of joint institutions for Ontario universities; and in changing the governance of the university.

This last undertaking was triggered by campus unrest, but Claude had already endured years of frustration with the board's refusal to accept his and the Senate's recommendations that it incorporate some faculty presence. He felt that, with a board consisting, except for the president and chancellor, entirely of provincial government appointees, and a Senate limited to purely academic jurisdiction, the university had no legitimate centre of authority to deal with the challenges that were emerging worldwide. His sympathy for reform, and his horror of the destructive violence that had paralyzed many American and some Canadian universities, caused him to engage repeatedly with militant student groups where he was subjected to derision, insult, and perhaps danger, in a persistent effort to separate reformist students from the radicals whose intent was to capture the university as a base for their desired revolution; at the same time, he had to withstand demands by the more peremptory members of the board to call in the police.

He proposed a single unifying governing body and seemed to have persuaded the Association of the Teaching Staff to participate in the process he had planned for its discussion, but at a meeting on Oct. 3, 1968, the ATS voted instead to support the Students' Administrative Council demand that

there be no board or administrative representation other than the president. Claude left the meeting badly shaken, but was persuaded in the following days that the faculty had acted out of distrust and resentment of the board, not out of lack of confidence in him; he decided not to resign, and served on the Committee on University Government, but his relations with the board never recovered, and those with the faculty were only slowly and partially restored. When the University-Wide Committee, called for by CUG, finished its recommendations along what he regarded as acceptable lines, he felt he had done all he could as president and resigned effective June 30, 1971.

BY THAT TIME I HAD LEFT FOR MANITOBA AND SAW HIM only occasionally in the next six years, during which he resumed teaching and completed his elegant and penetrating memoir, *Halfway Up Parnassus*. When I returned in 1976 he was working on his award-winning life of Vincent Massey and expressed relief at his freedom from administrative travail, but there was something a little wistful about his vaunted detachment. It wasn't long before he proposed that we establish a dining-and-discussion group. I thought this a very good idea; when he suggested names I noticed that all were or had been U of T people. During the several years the group met, he often brought up specific U of T matters, and it was clear that the love affair which began in 1937 when he entered what he called "the great good place" never died.

Ernest Sirluck was dean of graduate studies from 1964 to 1968 and vice-president and graduate dean from 1968 to 1970; he laid the foundations for the academic and administrative structure of graduate studies as we know them at the university today.

UNIVERSITY ~ OF ~ TORONTO

THE BULLETIN

September 11, 2000

Supplement

Report of the Task Force on Graduate Student Financial Support

May 31, 2000



Report of the Task Force on Graduate Student Financial Support Provost's Response

This report represents a very significant achievement and I am grateful to the members of the Task Force for their hard work. I am very pleased with the report's recommendations which embody general principles of equity and accountability and are, at the same time, practical in their orientation. The report also underscores the challenge that faces the University, particularly in addressing the current shortfall in financial resources required to bring graduate funding to the level prescribed in the report. It is very important that we proceed quickly and decisively to close this gap, so that the aspirational goal of the report quickly becomes a reality for our graduate students.

In my response, I have outlined some steps already taken, including a commitment I have made from the University's budget in the amount of \$9.4 million for graduate assistance over the next four years. In addition, the release of the report coincides with a very welcome announcement by the provincial government, involving a substantial increase to the Ontario Graduate Scholarship program. This announcement creates a tremendous opportunity for the University to considerably increase, through its fundraising activities, its resources for graduate assistance. I will shortly announce a matching program for Ontario Graduate Scholarships in the humanities and social sciences which should have a substantial impact in raising the level of graduate funding for students in those disciplines.

In my opinion, this report signals the beginning of a new era in the delivery of graduate funding at this University and provides a framework for this process. I believe that the University of Toronto is well positioned to make significant strides in its ability to attract excellent graduate students and to compete with the best research-intensive universities in North America in recruiting students to our programs.

Funding Packages

Recommendations for Minimum Funding Packages

1. *That the university, SGS, faculties, and graduate units work towards providing a guaranteed minimum level of financial support to all of its doctoral-stream students equivalent to \$12,000 per year (indexed according to cost-of-living) plus tuition (domestic or visa) for the first 5 years of study, including, where necessary, 1 year at the master's level. (As part of this process, it is assumed that units will undergo a review of their programs to define master's students who are legitimately in a doctoral-stream, versus those who are legitimately in a terminal master's.) The Task Force believes that, while \$12,000 plus tuition is an achievable target in the short term, a more appropriate goal is \$15,000 plus tuition. The Task Force also believes that high need students will naturally require higher levels of funding.*
2. *That units undergo graduate student enrolment planning with regard to academic priorities, supervisory capacity and critical mass, such that avail-*

able funds can match the number of students registered. As part of this process, graduate units are encouraged to consider possibilities such as direct entry into their PhD programs.

3. *To the extent that funding is provided by internal sources, units should strive to achieve equity between students with respect to the ratio between direct grants such as U of T Fellowships and awards that may require work, such as TA and RA positions. In particular, units should be cognizant of the impact of TA hours on available research time and endeavour to provide a similar ratio of award/grant funding to TA hours, to all students in the unit.*
4. *That each unit establish a coherent funding policy that is well advertised, transparent and reviewed annually by the unit. Units whose doctoral program requirements typically take longer than four years, or master's program requirements longer than one year, should also make clear what (if any) funding is available following the end of the minimum term of funding guaranteed by the university.*

I endorse wholeheartedly the recommendations for minimum guaranteed packages of support. As the report notes, these recommendations flow from, and fulfill an objective first raised in the Tuohy-McCammond report. I believe that the principles developed for the formulation of these packages are fair and well-reasoned. I am pleased that the Task Force has acknowledged the principle that graduate funding must be responsive to the requirements of high need students and, furthermore, that international students will require packages which takes into account their higher fees. I will work vigorously with all the Deans and SGS to ensure that faculties and graduate units become fully engaged in achieving and implementing these packages in compliance with the principles set down in this document. I appreciate the concern raised that high need students require access to additional or special sources of funding. Accordingly, I will explore the possibility of consolidating both the funding sources and counselling for graduate students in need of emergency and bursary assistance in one central office, (such as the Office of Student Awards) to ensure an expeditious consideration and processing of their applications.

I also strongly support the emphasis in the report on graduate enrolment planning. This has been a longstanding objective in my own planning agenda and has a central place in the planning strategies articulated in "Raising our Sights". I will continue to work closely with the Deans of the various academic divisions to develop graduate enrolment plans which are tailored to their academic strengths and priorities and to supervisory capacity. As part of this process, there will inevitably be contraction in enrolment in some areas as well as some increase in enrolments in areas of research strength and potential.

I endorse the concept that graduate units should have a policy that is well advertised, transparent and which it reviews annually. I also agree that students should be made aware of what funding options are available to them in master's programs which take longer than one year or doctoral programs which exceed four years.

Post-4 Funding

Recommendations:

5. *That post-4 doctoral students be provided with an as-of-right completion grant for years 5 and 6 of their program (and 7 where an extension is approved), equivalent to \$2,500 per year, effective September 2000. This grant would be a supplement to current sources and streams of funding for graduate students, but could be a component of any guaranteed minimum funding package.*
6. *That the effectiveness of this grant in providing financial relief, influencing time-to-degree, impact upon numbers of post-4 students, etc. be assessed over a four-year period of operation, with a view to either continuing the program, limiting the program to certain divisions and/or re-directing the money to alternate programs. Whatever the decision, this money must remain targeted towards doctoral-stream student support.*
7. *That units review, and where necessary modify their programs, such that they are consistent with a reasonable time-to-degree for the discipline.*

The Task Force provides a compelling argument for providing additional assistance to the current cohort of graduate students in the post-4 years. I support the recommendation for some form of bursary assistance to some students in this category.

It is also important that the University continue its efforts to encourage students to complete their programs in a timely fashion. I recognize that requirements for some programs take longer than four years, particularly those in which there are language requirements or fieldwork. These are requirements that are essential to a doctoral degree in that discipline, and improve the marketability of our graduates. In other programs, there are elements which increase the time-to-degree but which have arguably less pedagogical merit and should be re-evaluated. As in many other North American universities, the lengthy time-to-degree in many programs continues to be a source of concern within our institution. In response, efforts have been made to reduce this and to rationalize graduate programs and to provide incentives to students (such as the Dissertation Fellowship and the Career Research and Development Fellowships) to encourage them to complete their degree requirements in a timely fashion. These are initiatives which I strongly support and will continue to support, working with Deans and graduate units.

I agree that an as-of-right bursary be provided, effective September 2000, to students in Years 5 and 6 for a four-year period, after which its efficacy will be assessed. While I can appreciate the Task Force's reasoning for providing some form of post-4 funding, I fail to see a rationale for extending this funding to students in Year 7. I am concerned that to extend the bursary beyond the sixth year might nullify the positive effect of the incentives to completion that have been introduced (and proven to be very successful) in areas where completion times tend to be longer. I think it is a more prudent use of limited central funds to direct more funding to students at an earlier point in their programs. I will work with the Deans and SGS to ensure

that programs are reviewed such that they are consistent with a reasonable time-to-degree for the discipline.

Ways to eliminate the shortfall in funding for graduate students

As the Task Force has demonstrated, the shortfall will need to be addressed using an ensemble of strategies, including fund-raising, central operating budget support, divisional funds, and advocacy to agencies and government. Since the release of the Task Force report, there have been a number of promising developments, including increases in government funding, which I will discuss below. These will help to reduce significantly the shortfall much sooner than might have been anticipated at the time that the Task Force was preparing its report.

Fund-raising

Recommendation:

8. *That the university's campaign continue to have as a high priority the raising of funds for graduate student support and that the central advancement office should coordinate a University-wide effort to raise the additional \$200 million by 2004. These funds would support the elimination of both the shortfall of minimum funding and enable the creation of larger packages in programs of research strength, making these programs internationally competitive.*

I strongly support the recommendation to continue our fund-raising efforts with respect to graduate assistance, but believe that \$100 million is a more attainable goal, one which I am confident we can meet within the current planning period. The University is currently very well positioned to realize substantial gains for graduate students through its fund-raising initiatives. The recent announcement of a dramatic increase in provincial funding for Ontario Graduate Scholarships has created a tremendous fund-raising opportunity for the University. I will announce shortly a matching program aimed specifically at maximizing the benefits of this program for the humanities and social science.

Parenthetically, (and as noted in the report), there was about \$3.5 million in OSOTF funding that in 1998-99 had not yet been transferred to, or allocated by, graduate units. These funds will also help significantly to reduce the shortfall.

Advocacy to Government Funding Programs

Recommendations:

9. *That the university, its faculties, SGS, and graduate units seek new ways to obtain new funds from outside the university, using existing student award funds as leverage. Since most graduate units will autonomously manage student award funds, creative ways to obtain new dollars from external granting agencies, industry, and endowments should be promoted through matching programs. Granting agencies such as the Canadian Institute for Health Research (CIHR) may plan program grant competitions for funding graduate students in specific fields of research.*
10. *That the university promote increased funding from the province and seek matched (endowment) funding as*

often as possible e.g., OGS and OGSST-equivalents, PREA, as recommended in "Growing Ontario's Innovation System: The Strategic Role of University Research."

11. That the university's leadership advocate for greater allocation of funds for graduate student awards by Federal granting agencies, e.g., NSERC, SSHRC, and CIHR.

I endorse all of these recommendations. Since the release of this report, there have been very positive developments in the funding picture for graduate students, developments which were largely attributable to lobbying efforts by the university system. In the May 2000 budget, the Ontario government announced that the number of Ontario Graduate Scholarships would be increased by more than 50 percent and the value of each scholarship increased to \$15,000. The full extent of this funding is premised on a match from the University in the amount of \$3.5 million annually (or the equivalent of a \$70 million endowment). In conjunction with the matching program I am establishing, I will direct the Deans to establish as a high divisional priority the raising of funds to fully exploit the government's commitment. As part of this process, it is critical that individual graduate units take ownership of the process of seeking and raising funds for their graduate students, particularly in disciplines in which graduate funding assistance is very limited. The provincial government also announced a doubling of the number of PREA awards, awards given to faculty members specifically for graduate student and post-doctoral fellow support in the sciences.

As these recent developments demonstrate, the advocacy in which our institutional leadership has engaged and the connections we have established have had remarkably positive consequences. I recently met with Marc Renaud, the President of SSHRC, who was very interested in the work of the Task Force and was very eager to use its findings to press for better funding for students in the humanities and social sciences. I am hopeful that this meeting will have positive ramifications for funding in the social sciences and humanities. Finally, it is critical that, at all levels, we be continually attentive to possibilities for allocating funding to graduate students through existing and newly created research programs, such as the Canada Research Chairs.

Distribution of Funding across/within Graduate Units

Recommendations:

12. That the current distribution of funding within and across graduate units be examined. The university should seek ways to promote equalisation of minimum funding for all doctoral-stream students based on the available external resources to individual graduate units (consistent with the guarantee).
13. That the current distribution of funding in all graduate units be re-examined and that a process be initiated that would allow some redistribution of funding, based on current need and accessibility to external awards, through an APF process.

14. That, in determining the distribution of current and new funding, faculty and units should not be penalised for having access to research grants, and that research grants should not be overburdened as a component of the guaranteed minimum level of financial support.

I agree with the general thrust of these recommendations. As noted in the report, the flow of funding from external sources has favoured disciplines in the sciences and applied sciences and I anticipate that it will continue to do so for the foreseeable future. The recently announced changes to the OGS program present a timely opportunity for the University to increase substantially its level of graduate assistance. In the short term, it is incumbent on both the central and divisional leadership of the University to direct new funding to disciplines in which doctoral-stream students have much lower levels of assistance. This process of redistribution will of course be combined with the other measures cited in the report which will have implications for graduate assistance levels, including vigorous fund-raising, graduate enrolment planning and a rigorous examination by program of students' time-to-degree.

Internal Sources of Funding

Recommendations:

15. That the university identify and, wherever possible, redirect revenues to graduate student funding, as follows:
 - The university should make significant investments to the graduate assistance budget to help those students in areas of greatest need, beginning September 2000.
 - Faculty-based endowments that have no specific designation should be reassigned to graduate student funding.
 - The university should ensure that all funds raised during the OSOTF campaign be transferred to their target units as quickly as possible.
 - The university should use a portion of any future pension contribution holidays as a source of matching funds, developing matching programs that are attractive and appropriate to different disciplinary groups.
 - The university should re-examine Connaught Fund allocations, directing as much as possible towards graduate assistance, and also re-evaluate its strategy for matching funds.

I agree with all of these recommendations. I am very pleased to report that, in response to the release of this report, I recommended to the Planning and Budget Committee the provision of new base funding for graduate aid in the amount of \$2.7M in 2000-01, increasing to \$9.4 million over the next four years.

The recommendations contained in the second, third, fourth and fifth bullets will require action by Deans and other Vice-Presidents. I will bring these to their attention and encourage them to implement these recommendations or explore their feasibility as soon as possible.

OISE/UT

Recommendation:

16. That OISE/UT be given full consideration in the process of achieving guaranteed minimum levels of funding and in obtaining access to new sources of graduate assistance funding in accordance with the principles articulated in this report.

I agree with this recommendation. I am very pleased with OISE/UT's determination to raise the level of graduate assistance for their students, as signalled by the recent request in their plan for \$1 million from the Academic Priorities Fund to be put toward graduate student assistance. Under the integration agreement, OISE/UT has only very limited access to general graduate assistance funds such as the U of T fellowships until the end of that agreement in June, 2006. We might wish to consider the implications of ending this agreement before June 30, 2006.

Next Steps

Monitoring of Implementation of Task Force Recommendations

Recommendations:

17. That, following the Task Force, the university establish an advisory committee to the Provost with representation from SGS and students and faculty from all graduate divisions, to ensure stewardship of graduate student funding and that strategies for eliminating the shortfall are being implemented effectively and expeditiously.
18. That OISE/UT be represented on the advisory committee to the Provost in order to facilitate communication between the advisory committee and the OISE/UT Dean's Committee on Student Funding.

I endorse these recommendations and will move immediately to establish an advisory committee to monitor our progress in graduate student funding. The Vice-Provost, Students will oversee the implementation of the Task Force Report and distribution of the new funding, and ensure that all divisions are working steadily toward the goal of minimum funding packages for its doctoral-stream students.

Data Collection

Recommendations:

19. That the university and SGS maintain ongoing and up-to-date information on graduate student funding through graduate units, faculties, and SGS, working closely with the university data management systems.
20. That the University set as a high priority the integration of various administrative data systems (AMS, ROSI) such that funding can be analyzed and reports generated in a routine fashion by graduate units, faculties, SGS, and the university.

I support these recommendations. A project team has already been formed to build a Student Income Cube that will facilitate the integration of systems and provide the data needed to support the

implement of the recommendations of the Task Force. I will work with SGS, faculties, and graduate units to achieve a coordinated approach to the generation of data on an ongoing basis.

Other Issues

Travel, Research and Conference Funds

Recommendations:

21. That funding for research activities be extended, either through an increase in the size of, or change in the terms of reference of, the SGS fund established for this purpose and/or through the creation of divisional funds.
22. That, in addition, faculties and graduate units establish funds to help students cover travel, conference, equipment and other costs related to professional development and to completion of degree requirements.

I agree with these recommendations and will work with the Deans of SGS and the other faculties to explore ways of increasing funding for these purposes.

Post-graduation Status

Recommendation:

23. Units might consider establishing forms of post-graduation status (such as limited-term adjunct or research associate positions) in order to provide some infrastructure support for career development/achievement of their graduate students. Non-teaching research centres and institutes could also be canvassed for their ability to provide similar forms of affiliation.

I support and will convey this recommendation to the Deans.

PDAD&C #04, 2000-01

To: Principals, Deans, Academic Directors and Chairs

From: Adel Sedra

Re: Post-4 Doctoral Thesis Completion Grants

Date: August 4, 2000

I am pleased to announce the establishment of as of right Post-Doctoral Thesis Completion Grants, as recommended by the Task Force on Graduate Student Financial Support, to students in years five and six of their doctoral programs.

These grants of \$2,500 per annum, will be payable in three installments (October, January and May) and credited to the accounts of eligible students. A request form for these grants will be provided by SGS and OISE and distributed this year by graduate departments. The form will also be available on the web.

This new program is intended to assist the current cohort of doctoral students to complete their degrees by helping to alleviate their financial pressures. The program will be in place for the next four years, during which time its efficacy will be assessed. I would appreciate your bringing this completion grant to the attention of graduate supervisors and students.

Adel S. Sedra

REPORT of the TASK FORCE ON GRADUATE STUDENT FINANCIAL SUPPORT

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1. Introduction

Graduate education is a core function of a research university. A great research university may be renowned for the quality of its undergraduate experience or its exceptional professional programs, but its reputation as an outstanding research university is largely founded on its capacity to attract and support faculty with a passion for scholarly research, its emphasis on linking research and education through graduate studies, and its ability to recruit, mentor, support, and retain exceptional graduate students.

In order to advance its reputation as a great research university, the University of Toronto must ensure that its graduate programs have the capacity to attract excellent Canadian and international graduate students and that these students receive the necessary academic and financial support. The University of Toronto's leadership position among research universities can only be sustained if its

graduate programs can remain competitive in terms of recruiting exceptional students.

One approach to meeting this important challenge was identified in the Policy on Student Financial Support, ensuing from the Tuohy/McCammond Task Force on Tuition and Student Financial Support, approved by Governing Council in April, 1998. Within this policy, the university stated that "the goal of the University of Toronto should be to give doctoral-stream students multi-year packages of support that are competitive with packages offered by peer universities". Multi-year packages of funding will allow the University of Toronto to attract the very best graduate students, and thereby maintain its leadership role in research excellence.

In December, 1999, Provost Adel Sedra announced the formation of a Task Force which would evaluate the university's progress in achieving this goal.

The terms of reference of the Task Force are:

- to assess the full annual value of the packages of support provided to doctoral-stream students, by School of Graduate Studies (SGS) division, broken down by category and source of funding
- to gather information about support packages at other universities
- to make recommendations with respect to 'post-4' fees
- to make recommendations on how best the university can achieve its goal of providing multi-year packages of support to doctoral-stream students.

There have been a number of positive developments in graduate funding since the release of the Tuohy/McCammond report. They include:

- the introduction of the OGSST (Ontario Graduate Scholarship for Science and Technology) for scholarship support in science and technology: \$2.6 million annually. This will provide 173 students/year with \$15,000, (the university is urging the government to continue the program and to double the amount of funding);
- this year the Provost contributed \$1,000,000 from the Academic Priorities Fund (APF) toward graduate fellowships and began funding (to amount to \$1 million) for international student fee waivers;
- the Premier's Research Excellence (PREA) awards have been given to faculty members specifically for graduate student and postdoctoral fellow support in the sciences; and
- as a result of the restructuring of SGS, \$850,000 in funds have been moved from SGS administrative budget to graduate fellowships budget.
- in 1997, the Provost gave \$350,000 in base budget funding to OISE/UT for student assistance.

Process

The membership of the Task Force is listed in Appendix 1. The Task Force met on 14 occasions, between January and May of 2000. As part of its work, it invited submissions from the university community (see Appendix 2 for list of submissions) and held an open meeting with interested faculty and students. In addition, members of the Task Force met with SGS executive committees and the Chair attended a GSU council meeting and an open meeting organized by graduate students at Massey College. A consultation draft was posted on the Web, and a second open meeting was held to receive feedback from the community.

The creation of the Task Force coincided with a labour dispute with CUPE 3902, the union representing the teaching assistants. At the time of its first meeting, the teaching assistants were on strike. The Task Force therefore began its work in a very difficult political context, one which both intensified the focus on its work within the community and raised expectations.

From its own membership, the Task Force struck three working groups, each charged with analyzing and making

recommendations with respect to key dimensions of its mandate. One group examined the issue of funding to 'post-4' students; a second considered guidelines for establishing multi-year packages of funding; and a third working group developed proposals for ways of generating revenues to fund those packages.

The Task Force received 109 submissions (see Appendix 2 for a list of the authors of the submissions and Appendix 3 for a summary of the main issues raised). The number and intensity of the submissions attest to the tremendous interest the work of the Task Force generated. One theme, however, was consistent: graduate students have very serious concerns about the level of financial support they are receiving. These submissions were very informative to the Task Force. They helped to provide insight into the circumstances of students in a wide variety of disciplines and, by doing so, helped to inform its thinking and recommendations. The submissions also reinforced the diversity of students and graduate programs across the university and provoked particular concerns about the implications of the report's recommendations for their needs or areas. The Task Force believes that this is a healthy by-product of its work and is hopeful that its report will stimulate debate and, where warranted, improvements to graduate funding practices in ways that respond to local or more specific concerns.

The Task Force would not have been able to do its work without reliable, current data. It wishes to acknowledge with gratitude the formidable efforts of five staff members responsible for collecting and organizing the background data and information: Ken Debaeremaeker, Martin England, and Mary McGee from the Planning and Budget Office; and Soobong Song and Heather Walters from the School of Graduate Studies.

2. Current Data on Funding

Some General Notes on the Data

The Task Force examined data on enrolment and financial support from 1998–99. Data for OISE/UT were collected and analyzed separately because it is not part of the SGS financial awards database. Data from OISE/UT had to be generated specifically to meet the analytical needs of the Task Force. Similarly, data for students in the Faculty of Medicine had to be generated separately since some of their funding flows from the affiliated hospitals.

The data tend to under-report current sources of funding in disciplines where relatively new endowments (such as those raised during the OSOTF campaign) have not yet been allocated to students (approximately \$3.5 million) and, in some areas, because of systemic problems in assigning TA expenditures to individual students. In 1999–00, the OGSST (Ontario Graduate Scholarship in Science and Technology) was introduced, providing \$2.6 million to 173 students at \$15,000/each. These award data are not included.

Distribution of Funding

A total of \$69,135,748 (excluding OISE/UT) is currently distributed to graduate students in the form of fellowships, TA-ships and RA-ships. Table 1A shows the distribution of these forms of funding across the various divisions and graduate units of SGS.

Divisions I (Humanities) and II (Social Sciences) have the lowest total amount of funding: \$11,334,254 and \$10,041,323 respectively (excluding OSAP and UTAPs funding). Divisions III (Physical Sciences) and IV (Life Sciences) are significantly higher: \$20,336,511 and \$27,423,661. Division IV also has the highest enrolment of any division, with 2201.6 FTE students, as compared with 1274.9 in the Humanities.

The main reason for the difference is the level of discipline-based external funding. Divisions III and IV have a significantly larger base of external funding than divisions I and II. Taken together, MRC (Medical Research Council) awards and NSERC (Natural Science and Engineering Research Council) awards provided \$8,071,410 to students in divisions III and IV. By comparison, students in divisions I and II received \$2,113,098 from SSHRC (Social Sciences and Humanities Research Council), with a small portion of SSHRC funding distributed to division IV. These differences will become more pronounced with the introduction of the OGSST awards in 1999-00, when \$2.6 million will be added to the funding received by students in divisions III and IV. In addition, students in division III and IV receive a significant amount of funding (approximately \$18 million) in the form of research assistantships funded from their supervisors' research grants, whereas those in divisions I and II received only \$826,956 in research assistantships.

Sources of Funding

Almost all government-funded awards are restricted to Canadian citizens or permanent residents (an exception is the Ontario Graduate Scholarship). OSOTF awards also have a similar restriction. They are given to either Canadian citizens or permanent residents. Almost all other internal awards do not have the citizenship restrictions. With the exception of the U of T Fellowship, most awards cannot be held after the fourth year for doctoral students and the second year for master's students. The summary below includes only the major sources of funding for graduate students. It is intended primarily to give a snapshot of how funding is distributed across the four divisions.

Internally-Funded Awards

The principal source of internal scholarship funding for doctoral-stream students is the University of Toronto Fellowship (formerly called the University of Toronto Open Fellowship). In 1998-99, approximately \$14 million was distributed in U of T Fellowships.¹ These awards have a minimum value of \$1,000. Funding is allocated to all graduate departments (including professional programs) based on a rolling five-year full-time weighted enrolment.² In 1998-99, each division was allocated between \$3-\$4 million in these fellowships.

In 1998-99, awards from the Connaught Fund totalled \$1,289,805. The Connaught

fellowship has a value of \$11,000 plus tuition and is a renewable scholarship, subject to the discretion of the department. It is an excellent recruitment tool for international students. Roughly half the Connaught awards are given to international students.

Externally-Funded Awards

The largest source of external funding graduate students receive is the NSERC award, given primarily to students in divisions III (Physical Sciences) and IV (Life Sciences). In 1998-99, a total amount of \$6,032,754 (excluding OISE/UT) was awarded. These awards are available to students at both the master's and doctoral levels and can be held for a maximum of four years. During the first two years of graduate work, the NSERC award has a value of \$17,300, during the last two years \$19,100 (this phase of the NSERC award is available only to PhD students).

In 1998-99, a total of \$4,791,313 (excluding OISE/UT) was allocated in Ontario Graduate Scholarships (OGS), a fellowship program which is administered through the provincial government. Allocated on an annual basis, these are available to students in all divisions at both the master's and doctoral level. They have a value of \$11,859 and are the most widely held external award at the University of Toronto. Unfortunately, the value of OGS fellowships has remained the same for 10 years.

A total of \$2,287,608 (excluding OISE/UT) was allocated in SSHRC awards. These awards, which can be held for a maximum of four years, are given to doctoral students in the humanities and social sciences and have a value of \$16,620. After the OGS, they are the main source of external funding in divisions I and II.

In division IV, the principal form of external funding in the medical departments is the MRC (Medical Research Council) award. Students in non-medical departments, such as Zoology, derive most of their external funding from NSERC. In 1998-99, a total of \$2,090,456 was distributed in MRC awards. The MRC Doctoral award, which has a value of \$19,030/year, is a multi-year award extending over a period of four years.

Teaching, Research and Graduate Assistantships

In addition to fellowships, students receive funding from TA-ships, RA-ships and GA-ships. RA-ships are funded from faculty members' research grants, TA-ships and GA-ships from divisional budgets. In 1998-99, \$12,525,764 (excluding OISE/UT) was distributed in TA-ships. TA-ships are distributed evenly across divisions. \$18,905,027 was allocated in RA-ships. Division IV distributes roughly 60% of the university's RA-ships (over \$11 million) as compared with \$274,314 in division I.

Funding Levels

The average funding per FTE doctoral stream student is \$12,790 (excluding OISE/UT, see Table 1A). These data include all students in doctoral-stream programs, at both the master's and PhD level. Funding is lowest in division I (\$9,047), followed by division II (\$11,584), highest in division III (\$15,436) and then division IV (\$14,631). The dif-

ferences in averages across divisions are attributable to two main factors: i) differences in the level of external funding; and ii) differences in support to master's students across the four divisions.

Table 1F shows the differences in average levels of funding per student, according to division. On average, master's students in the humanities and social sciences receive significantly less (\$4,124 and \$5,704 respectively) as compared with their peers in the physical sciences (\$14,784) and life sciences (\$13,850). Tables 1B - 1E show the average levels of funding to master's and to PhD students across departments. Although some humanities and social sciences reserve a small portion of their U of T fellowship funding for master's students, the vast proportion of their funding is allocated to doctoral students. In the sciences, master's students receive funding roughly equivalent to that of a PhD student and, in many cases, transfer part-way through their program directly to a PhD.

As expected, another significant difference can be found in the level of funding to students in years 1 - 4 when most internal and external awards are held, as opposed to the post-4 years, when this form of funding may have expired. Table 2 shows that the average amount awarded to a student in the Years 1 - 4 is \$16,373 (excluding Medicine and OISE/UT); in the post-4 years this amount drops to \$7,159. For PhD students in the years up to and including Year 4, \$26,867,389 in funding is allocated; for students in the post-4 years, the total figure is \$5,448,266. This significant drop in funding is not matched with a correspondingly large drop in enrolment. Data indicate that, in every division, approximately 30% of PhD students are enrolled in years 5, 6 and 7.

Tables 3A - 3C express the decrease in funding opportunities for PhD students as they progress through their programs in terms of the allocation of different types of funding (external awards, TA's, RA's, etc.). As these tables indicate, sources of funding contract considerably after the fourth year of a PhD. The most dramatic drop is in the level of fellowship support. Among students in years 1 - 4, 1,256 U of T Fellowships and 626 external awards are allocated; this drops to, respectively, 187 and 72 in the post-4 years.

OISE/UT Funding

The funding picture for OISE/UT students is dramatically different from that for the rest of the university. As compared with PhD students outside OISE/UT, in which the average level of funding is \$14,144, the average OISE/UT doctoral student received \$4,867 (see Table 4). The average funding for doctoral students in years 1-4 is \$5,782 and in the post-4 years \$2,932. A significant portion of OISE/UT's PhD students, (286 out of 564), receive no funding at all from university sources or external awards.

OISE/UT's students receive a lower level of funding from external sources, receiving (with an enrolment of 1,374.7 doctoral-stream students) a total of \$521,796 in OGS funding and \$465,360 in SSHRC awards (data on the cross-divisional funding include funding for Ed.D students). By comparison, the rest of division II (with an enrolment of 1527.8 students) received \$877,566 and \$829,098 respectively.

The funding culture within OISE/UT is different from other graduate divisions and its resources very limited. Approximately 50% of the allocation (\$600,000 in 1998-99) from its fellowship budget is in the form of need-based bursaries; \$630,165 was allocated in merit-based awards. OISE/UT's doctoral students are eligible for Graduate Assistantships (GA's) and for TEPAs (Teaching Education Program Assistants). In 1998-99, \$1,845,035 was allocated in GA's and TEPAs. As noted earlier, in keeping with the merger agreement, OISE/UT students are not currently eligible for U of T Fellowships or Connaught awards.

3. Funding Packages

Current Practices

While many departments have established funding policies for doctoral-stream students, practices vary substantially. In some departments, all students admitted are guaranteed a minimum amount of funding for four years at the PhD level. This minimum varies, depending on factors such as the availability of external funding sources and of TA-ships and RA-ships. For example, although Philosophy guarantees its incoming students four years' funding, its minimum is considerably less (in 1998-99, \$12,500) than what Physics can offer its students (\$17,007). Some departments, particularly in divisions I and II, do not provide guaranteed four-year packages, but try instead to provide some measure of funding to all students. Where guarantees do exist, they generally last four years, with occasional extensions made for students who in Year 5 are writing their dissertations.

Support Packages at Other Universities

The Task Force reviewed data on 30 American peer institutions available through the Association of American Universities Data Exchange (AAUDE). The average amount in graduate assistant compensation at American universities in 1997-98 was \$12,167 (expressed in Canadian dollars, this figure is net of tuition: see Table 5). The AAUDE compensation figures comprise all forms of funding provided to students, including internal and external awards, TA-ships and RA-ships. By mutual agreement of the participating institutions, the identity of universities included in the AAUDE survey is not revealed, so the data do not allow us to make comparisons with individual universities. Doctoral-stream students at the University of Toronto received on average \$12,790 in 1998-99, with tuition fees paid from this amount. This puts our students at a considerable disadvantage when compared with our American peer group. However, the data indicate differences in the size of teaching assistantships offered at our American peer institutions. A typical TA-ship at U of T is between 5-10 hours/week, whereas at many American universities students are paid to work 20 hours/week for approximately 36 weeks/year. It is not clear from the data whether funding packages are guaranteed.

Comparisons with Canadian universities were more difficult to make. Until recently, there has been no analogue to AAUDE in Canada. The Task Force therefore had to rely on information gleaned from university web-sites and from responses to an Email sent to University Registrars, requesting information on their institutional practices. Based on the information available to the Task Force, it appears that the practice among

¹ Under the merger agreement between OISE/UT and the University of Toronto, OISE/UT students are not eligible to apply for almost all internal awards (with the exception of the newly established international recruitment awards (IRA) during the life of that agreement, which expires in 2006.

² Weighted enrolment means that only master's students in the first two years of the program and doctoral students in the first four years of the program are counted. Furthermore, master's students are counted as one and doctoral students as two.

Canadian universities is similar to ours, that is, while some departments offer guaranteed funding packages, no institutions offer guaranteed funding across the board. There is moreover no indication in this information that suggests other universities are planning to implement a funding guarantee.

Across disciplines at research-intensive Canadian universities, the funding practices and levels are generally consistent. For example, our Physics department and the Physics department at the University of British Columbia (UBC) both guarantee full funding to doctoral students and have similar funding strategies for allocating funding. Queens', UBC and McGill estimate cost-of-living (including tuition) at approximately \$17,000.

Recommendations for Minimum Funding Packages

The Task Force endorses the recommendation of the Tuohy/McCammond report which, to reiterate, states that "the goal of the University of Toronto should be to give doctoral-stream students multi-year packages of support that are competitive with packages offered by peer universities". Its working group was asked to examine current practices across the various divisions, with a goal of identifying best practices and to making recommendations on principles and specific strategies for constituting these packages.

Currently, students in doctoral-stream programs are expected to apply for external funding. Underlying the Task Force's guidelines for minimum packages is the assumption that students will continue to be expected to apply for external funding in order to be eligible for the internal funding provided through these packages. SGS, faculties and graduate should continue to publicize these awards and the relevant deadlines as widely as possible.

In determining the minimum amount of funding, the working group relied on a modified OSAP estimate used for graduate students attending the University of Toronto. This modified OSAP estimate assesses cost-of-living at \$17,000, or approximately \$12,000 plus tuition. The estimate includes tuition, incidental fees, book supplies and living expenses, rent, photocopying and books.³ The Task Force recognizes that this is a conservative estimate of living expenses, particularly for international students who have additional expenses, such as UHIP. In the longer term, it recommends \$15,000/year plus tuition as a more appropriate minimum package. In addition, the figure of \$12,000 plus tuition will need to be revised as cost-of-living increases in Toronto, just as the assumption regarding tuition will need to be indexed to actual tuition rates. For international students, the Task Force assumes that the value of minimum packages will be augmented in accordance with the higher cost of visa fees.

The Task Force recognizes that \$12,000 plus tuition is a modest level of funding. It is high by Canadian standards and comparable to the level provided by our peer American universities. Nevertheless, Toronto is an expensive city and this must be taken into account. The Task Force further realizes that, while \$12,000 might

currently be sufficient to support a single student, students with only one income who have children and all students with special needs will naturally require higher levels of funding. However, it is impossible to project a standard level of support for these students. Rather, their financial needs will be dictated by their personal circumstances and requirements and will vary from one student to another. Fortunately, the University currently has (through its UTAPs program and other sources) mechanisms for assessing and providing aid for students whose financial needs will exceed the minimum package recommended in this report. The Task Force recognizes that this program (and others like it which are available to our students) are vitally important resources in ensuring that all of our students are adequately supported.

In determining the duration of the recommended funding packages, the Task Force took into account the timelines recommended in the School of Graduate Studies Calendar. SGS recommends that graduate units design a four-year Ph.D. program, and that departments whose programs typically exceed this time-to-degree must communicate this to students in their literature. SGS also recommends that M.A. and M.Sc. degrees should take from 1-2 years but, in actual practice, most doctoral-stream master's programs are designed to take one year. With these SGS guidelines in mind, and also taking into account the practicalities of finding sufficient resources, the Task Force is recommending a funding package that would support five years of graduate study, defined as one year of master's study and four years at the doctoral level. This timeframe conforms with the guidelines used by most external funding agencies and the practice of many Canadian universities with programs which offer full funding packages.

Some departments, particularly in divisions III and IV, have already achieved, if not surpassed, the minimum guaranteed package being recommended by the Task Force. In many of these departments, intake of both master's and PhD students has traditionally been linked to the availability of funding (through internal/external awards, TA-ships and RA-ships) and to supervisory capacity. However, for the university as a whole, the funding sources currently available cannot support all doctoral-stream students at a level of \$12,000/year plus tuition. Later in the report the extent of funding required and some strategies for eliminating the shortfall in funding are discussed.

Graduate enrolment planning will play a pivotal role in the university's success in implementing multi-year packages across divisions. For the goal of guaranteed funding for all doctoral-stream students to be realized, obviously there must be a match between the number of students registered and the amount of funding available. At the present time, some units admit only as many students as they can support at the minimum levels those units set for themselves. Some units do not base their admission decisions on the availability of funding. To achieve our goals, all units must take funding into account when admitting students. This is not to suggest that this will be the only criterion for setting the size of a program. Clearly, graduate units should also examine their supervisory capacity, critical mass, program structure and other such factors in deciding how many students to admit. Moreover, in stressing the importance of

considering the availability of funding, we are not suggesting that, at least in the short run, this funding must come from the particular graduate unit. On the contrary, the thrust of this exercise has been that funding to provide the minimum level of support will come to some extent from the university as a whole. Thus, the university, faculties, and graduates units will need to work together to achieve a balance between the appropriate enrolment level of each unit and the funding that is available.

When constituting the packages, units should ensure that, to the greatest extent possible, individual students are funded through a mixture of different sources of funding, including internal/external awards, TA-ships and research grants.⁴ Student loans, such as OSAP, should not be part of these guaranteed funding packages. It is also important that there be consistency in the allocation of TA assignments across a department's student population, to ensure that students are not overburdened by the demands of their TA responsibilities. In departments in which faculty hold research grants, it is expected that graduate supervisors will provide some level of funding from their grants to help support graduate students. However, in achieving a guaranteed minimum level of financial support, it is essential that supervisors' grants not be overburdened in this context and that the university aim to reduce the amount currently charged to research grants.

Academic units should establish a policy for funding that is well advertised, transparent, and which is monitored. Students should be made aware of these policies prior to their admission. Following on the SGS requirement noted earlier, the Task Force recommends that units whose program requirements typically take longer than four years address in their policy the sources of funding that might be available to students after the end of their guaranteed funding. Currently, in many graduate units a written contract, involving the student, supervisor, and the head of the graduate unit is drawn up to confirm the funding arrangements for that student throughout his or her program (see Appendix 4 for an example). The Task Force recommends this as a procedure to be adopted throughout the university. It will give students assurance about the logistics and sources of funding for their program at its commencement. Finally, it is essential that financial counselling be available to students throughout their programs.

In establishing local funding guidelines, the Task Force recommends there be departmental assessment as to how

⁴ Within the University community, there is a divergence of opinion about whether TA-ships, in particular, should be treated as a component of a graduate support package or strictly as work which generates income but has no bearing on a student's graduate program. Those supporting the latter view argue that TA-ships are simply work which distracts students from their studies and provides income in the same way that work performed outside the university would. Those with a different view expect TA-ships to be included in the derivation of a graduate student's package, regarding a TA-ship as a form of academic preparation and, furthermore, as a conventional source of funding for graduate students in the North American system. The Task Force has tried to strike a balance between these two points of view by incorporating TA-ships into its overall funding scheme, but recommending that graduate units be careful to ensure that individual students are not overburdened by TA assignments to the detriment of their progress through their programs.

doctoral-stream students at the master's level are defined. Anecdotal evidence suggests that many students in what are categorized as doctoral-stream master's programs have no intention of pursuing doctoral work or would not be admitted to a PhD program in that discipline. Many students in these programs are completing a terminal master's degree for professional reasons (i.e. teaching) or personal interest. Departments may wish to review the composition of their master's enrolment to see if there are ways of identifying which students are in fact being streamed toward their doctoral programs, and concentrate their resources to create packages for those students.

In addition to providing the minimum package described in this section, units may wish to supplement their own departmental package in ways which correspond to the nature of their discipline or which will make them more competitive. For example, in disciplines where the time-to-degree is considerably longer than four years, units might choose to offer five or six-year packages. In addition, many departments with adequate resources will obviously wish to offer more generous packages in order to compete with peer institutions for the best students, as discussed in an earlier section.

Recommendations:

That the university, SGS, faculties, and graduate units work towards providing a guaranteed minimum level of financial support to all of its doctoral-stream students equivalent to \$12,000 per year (indexed according to cost-of-living) plus tuition (domestic or visa) for the first 5 years of study, including, where necessary, 1 year at the master's level. (As part of this process, it is assumed that units will undergo a review of their programs to define master's students who are legitimately in a doctoral-stream, versus those who are legitimately in a terminal master's.) The Task Force believes that, while \$12,000 plus tuition is an achievable target in the short term, a more appropriate goal is \$15,000 plus tuition. The Task Force also believes that high need students will naturally require higher levels of funding.

That units undergo graduate student enrolment planning with regard to academic priorities, supervisory capacity and critical mass, such that available funds can match the number of students registered. As part of this process, graduate units are encouraged to consider possibilities such as direct entry into their PhD programs.

To the extent that funding is provided by internal sources, units should strive to achieve equity between students with respect to the ratio between direct grants such as U of T Fellowships and awards that may require work, such as TA and RA positions. In particular, units should be cognizant of the impact of TA hours on available research time and endeavour to provide a similar ratio of award/grant funding to TA hours, to all students in the unit.

That each unit establish a coherent funding policy that is well advertised, transparent and reviewed annually by the unit. Units whose doctoral program requirements typically take longer than four years, or master's program requirements longer than one year, should also make clear what (if any) funding is available following the end of the minimum term of funding guaranteed by the university.

³ This assessment is based on an independent, single student. Students who have needs which exceed the OSAP limit, as well as students in professional master's programs, have access to the university's financial aid program.

Division	Students in Years 1-4 (in %)	Students in Years 5-7 (in %)
Humanities	59.3	32.7
Social Sciences	67.0	29.5
OISE/UT	65.7	29.8
Physical Sciences	68.7	28.8
Life Sciences	66.4	30.3
Total for University	65.0	30.4

4. Post-4 Funding

As part of its mandate, the Task Force was asked to make recommendations with respect to post-4 funding. It formed a working group which considered the data on post-4 students, the submissions on this subject, and considered arguments both for and against the introduction of a bursary for students in the post-4 years.

Figures 1A-1F show the distribution of PhD students by years of study, shown as actual numbers and percentages of total enrolment. The first of these bar charts is summarised below in tabular form. Figures 2A-2D show the change in the distribution of students within each division since 1990, according to their year of enrolment.

As these data indicate, in each division close to 30% of our graduate students are in years 5-7. Men and women are represented proportionately in this group, as are (at least in years 5 and 6) international students. The last group is less likely to be found in years 7 and 8.

In 1999, the Graduate Students' Union (GSU) proposed the creation of a reduced tuition fee regime or a post-4 fee to help offset the financial pressures on students in these years. As the data examined earlier in this report indicate, students in this group received considerably less funding, an average of \$7,159/year as compared with \$16,373/year for a student in years 1-4 (data exclusive of OISE/UT and Medicine). The proposal was for students in years 5, 6, and 7 of their PhD programs to receive an as-of-right bursary of \$2,500. With approximately 1,000 PhD students in this category, the cost to the university of the bursary is \$2.5 million. The Task Force invited feedback from the university community on the advisability of introducing a post-4 bursary, and received numerous responses.

Opponents of a post-4 bursary suggest that it would undermine efforts made to encourage students to complete in four years as well as efforts made by departments to rationalise and stream-line their program requirements. In addition, there is divisional resistance to a post-4 bursary as an appropriate strategy for providing support to graduate students, particularly in divisions III and IV. There is a preference, given current limitations on the availability of funding for graduate students, to target any funding to students in the first four years (helping them to complete expeditiously) rather than targeting those funds toward students who have been in the system for some time.

Those in favour of some form of post-4 funding believe it is needed to help the current cohort complete their degrees by alleviating the financial pressures on these students. Many challenge the universality of the four-year completion model for doctoral programs. There are many curricular factors that lead to a longer and arguably a better program: field work, practica, and language requirements. These are factors over which students have little control, but may extend a program beyond four years. Those in

favour of some form of post-4 funding also believe that to compel all students to try to complete in four years is unrealistic. In addition, trying to finish in 4-5 years might put students at a disadvantage when competing for academic positions with students who have had more than six years to complete work in the same area. For many students, there are opportunities for teaching and professional development here that could not be found outside the academy.

Time-to-Degree: Implications for Funding

There was considerable debate within the Task Force and commentary in the submissions on the 'four-year model' for completion of a doctorate. Much of the support for a post-4 bursary came from students and faculty in academic units in which doctoral programs are typically longer than four years. While it is outside the mandate of the Task Force to make recommendations with regard to time-to-completion, its discussion of this issue influenced its thinking on post-4 funding and helped to shape its recommendations, and so is briefly recorded in this section.

The Task Force examined recent data on time-to-completion (see Table 6). In 1998-99, the average time-to-completion for a PhD degree at this university was: 6.1 years in division I; 5.3 in division II; 5.0 in division III; and 4.9 years in division IV. Within divisions, there is variance across departments. For example, in division II, average completion times range from a high of 6.4 years in Sociology and in Information Studies to a low of 4.6 years in Theory and Policy Studies in Education. Completion times are roughly equal for men, women and visa students. Comparisons SGS has conducted with peer institutions show that many of our departments with completion times of longer than five years are in fact finishing faster relative to their peer institutions.

As the data on award programs and post-4 funding have shown, variations in times-to-completion across disciplines clearly have significant implications for funding levels and expectations of doctoral students. The current fellowship system is structured around a four-year model for completion. Most graduate awards (including SSHRC, NSERC, OGS, MRC, Connaught) can only be used during the first four years of a PhD. (The one exception is the U of T Fellowship which is occasionally allocated to students in their fifth year.) In addition, departmental funding policies within the university generally conform to a four-year funding template, with occasional extensions of support to students in fifth year. After that, funding may become sporadic, with students relying primarily on funding from TA-ships.

In 1992, Professor Joseph Fletcher and Richard Stren,⁵ in a study conducted of

⁵ Joseph Fletcher and Richard Stren, *Report on a Survey of Recent and Current Doctoral Students at the University of Toronto Centre for Urban and Community Studies*, University of Toronto, February 1992.

1991 graduates of PhD programs, identified a number of factors which affect time-to-completion. The primary impediment to finishing in a timely manner was financial pressures: students having to interrupt their studies to take full-time or part-time work. Interestingly, the gap between divisions I and II versus divisions III and IV, with regard to time-to-degree, disappeared when controlling for time worked and income. They cited other factors as well, including problems in defining the thesis topic and supervisory problems. Furthermore, expectations about what is required in doctoral work vary across departments, leading to considerable variations in the research demands on doctoral students.

In recent years, departments have made efforts to reduce time-to-degree, through streamlining requirements. SGS has introduced a number of incentives for completion, including the Dissertation Award, which gives \$18,000 to students in divisions I or II who are completing their degree in five years or less, with preference given to students who are finishing in 4 years or less. Some departments, such as Spanish and Portuguese, offer enhanced stipends to students in the fourth year, when they are writing their dissertations.

Some members of the Task Force, while supporting the introduction of a post-4 bursary, were concerned that more could be done to structure academic programs in such a way as to promote timely completion, while preserving their academic quality. The Task Force supports the view that the institution should continue to find ways of reducing time-to-degree, both through re-examination of its programs and the provision of incentives to students to finish their degree.

The Task Force recommends the introduction of an as-of-right post-4 bursary. It believes that the current cohort of post-4 students have faced financial challenges which are unique to their cohort. They have experienced significant fee increases, while not having the benefit of post-program fees. The introduction of a post-4 bursary would have an immediate and positive impact on the segment of our doctoral population with the most limited financial resources. Moreover, it would benefit students across all divisions.

The Task Force recommends that the post-4 bursary program be reviewed over a four-year period, at which time it might be discontinued or revamped. The Task Force is cautiously optimistic that, as funding packages improve, a larger proportion of our students will graduate more quickly. There may be better and different uses at that time for the funding, with some units deciding to redirect it to students in years 1-4.

Recommendations:

That post-4 doctoral students be provided with an as-of-right completion grant for years 5 and 6 of their program (and 7 where an extension is approved), equivalent to \$2,500 per year, effective September 2000. This grant would be a supplement to current sources and streams of funding for graduate students, but could be a component of any guaranteed minimum funding package.

That the effectiveness of this grant in providing financial relief, influencing time-to-degree, impact upon numbers of post-4 students, etc. be assessed over a

four-year period of operation, with a view to either continuing the program, limiting the program to certain divisions and/or re-directing the money to alternate programs. Whatever the decision, this money must remain targeted towards doctoral-stream student support.

That units review, and where necessary modify their programs, such that they are consistent with a reasonable time-to-degree for the discipline.

5. Ways to eliminate the shortfall in funding for graduate students

The Task Force created a working group to try to identify strategies for raising new revenues and exploiting current sources of funding to eliminate the shortfall. The working group examined all current sources of funding available to graduate students, from both internal and external sources. As mentioned earlier, it is expected that students will explore all possible sources of external funding.

Definition of Shortfall

The *shortfall* is defined as the gap between current funding, from all university and external award sources, and a guaranteed minimum of \$17,000/year (including tuition) for all doctoral students (1 year master's and 4 years at the PhD level). The analysis of the shortfall in each division, including OISE/UT, is based on the 1998-99 frequency distribution of funding for all doctoral-stream students. (See Tables 7A and 7B.) In addition, units will naturally wish to craft 4-year funding packages which exceed the minimum guarantee in order to remain competitive with peer graduate units in Canada and the USA.

Estimate of Size of Shortfall

The amount required to bring all PhD students to a level of funding of \$17,000/year in years 1-4 is \$11,661,032. Of the total amount: \$4,354,833 is required to close the gap for OISE/UT PhD students; \$1,213,483 is required for Medicine; and \$6,092,716 for the rest of the university. In Medicine, a significant portion of the shortfall is attributable to Community Health, where 128 students are currently receiving less than \$17,000/year.

If all students in the first year of doctoral-stream master's programs were to receive the same level of funding as PhD students, the gap in funding for this group is \$9,644,019, thereby creating a total shortfall for the university of \$21,305,051.

Elimination of Shortfall: Principles, Strategies, Goals and Timing

The Task Force recommends the elimination of the shortfall in minimum funding for all doctoral students by 2005. By 2005, the university should ideally be in a position to establish funding packages competitive with peer universities for incoming doctoral stream students, within the realm of funding opportunities.

The first task in addressing the shortfall is twofold: i) identifying all potential sources of funding, both internal and external; and ii) enrolment planning. The Task Force recommends that all academic units set priorities such that future enrolment in graduate programs reflects the funding available to support all doctoral students at a minimum established by the University of Toronto.

The Task Force is recommending a number of strategies for eliminating the shortfall. In making these recommendations, its working group considered the possibilities of exploiting current sources of revenue, including the university's operating budget and funding from government agencies. These sources might have some potential for increasing revenues, but they are very limited. The Task Force believes that most of the revenues required will need to be generated through fund-raising.

The university has had some success in raising money for graduate assistance. It was very successful in raising funds for this purpose during the recent OSOTF campaign, increasing the endowment for graduate assistance by \$93 million. Some areas (such as Zoology and Medicine, to cite two examples) devoted tremendous energy to the OSOTF campaign and were extremely successful.⁶ The university also succeeded in raising \$8.7 million towards the OGSST scholarships in less than eight months. This development has in turn freed up more internal scholarship funding for the humanities and social sciences. Nonetheless, in order to reach the goal set out in this report, the university will need to intensify its efforts to raise funds for graduate assistance, preferably through its capital campaign. Interestingly, the Massachusetts Institute of Technology has assigned an extremely high priority to this goal in its campaign in order to provide the best financial packages for its graduate students. To be successful, the university, faculties, and graduate units will need to work collaboratively to achieve both local and university-wide goals.

i) Fund-raising

Recommendation:

That the university's campaign continue to have as a high priority the raising of funds for graduate student support and that the central advancement office should coordinate a University-wide effort to raise the additional \$200 million by 2004. These funds would support the elimination of both the shortfall of minimum funding and enable the creation of larger packages in programs of research strength, making these programs internationally competitive.

ii) Advocacy to Government Funding Programs

The university has placed a high priority on, and devoted considerable time and effort to, making governments and funding agencies aware of the need for increasing funding for research and graduate support. It is vitally important to the success of this report for the university's leadership and members to continue to mobilize their forces to improve, in particular, the level of support for graduate students from external sources. The university, SGS, faculties, and graduate units, as well as individual faculty members, all have an important role to play in establishing new, and exploiting current, sources of programmatic funding, as well as funding from private foundations.

⁶ Beyond the OSOTF and the OGSST, the Provost has continued to match 1:1 every dollar raised for endowed graduate student support.

Recommendations:

That the university, its faculties, SGS, and graduate units seek new ways to obtain new funds from outside the university, using existing student award funds as leverage. Since most graduate units will autonomously manage student award funds, creative ways to obtain new dollars from external granting agencies, industry, and endowments should be promoted through matching programs. Granting agencies such as the Canadian Institutes for Health Research (CIHR) may plan program grant competitions for funding graduate students in specific fields of research.

That the university promote increased funding from the province and seek matched (endowment) funding as often as possible e.g., OGS and OGSST-equivalents⁷, PREA, as recommended in "Growing Ontario's Innovation System: The Strategic Role of University Research."

That the university's leadership advocate for greater allocation of funds for graduate student awards by Federal granting agencies, e.g., NSERC, SSHRC, and CIHR.

iii) Internal Sources of Funding

While there are relatively few potential sources of the university's operating budget or endowment which can be redirected to graduate funding, the Task Force recommends that the university explore these possibilities to the fullest extent. As one example, in some departments there is concern for a greater efficiency in transferring OSOTF funds from central accounts to the units to which it is targeted. In addition, the value of the Connaught award (\$11,100 plus academic fee) has remained unchanged for 10 years and the amount of the total allocation to graduate students has remained constant, at \$1.3-\$1.4 million for some years. The Task Force recommends that the possibility of increasing funding from this source be explored. Also, there may be ways that some fund-raising initiatives could be modified to make them more attractive to donors, particularly those devised to raise funds for graduate students in the humanities and social sciences. In this regard, one of the university's current matching programs requires a minimum donation of \$100,000 to qualify for a match. This threshold might be too high for the kinds of donors interested in giving to the humanities and social sciences. Consideration should be given to revising the terms to allow a match for donors of smaller amounts.

Recommendations:

That the university identify and, wherever possible, redirect revenues to graduate student funding, as follows:

- *The university should make significant investments to the graduate assistance budget to help those students in areas of greatest need, beginning September 2000.*
- *Faculty-based endowments that have no specific designation should be re-assigned to graduate student funding.*
- *The university should ensure that all funds raised during the OSOTF*

⁷ Immediately following the last meeting of the Task Force, the Ontario government announced that the number of Ontario Graduate Scholarships would be increased by more than 50 percent and the value of each scholarship increased to \$15,000.

campaign be transferred to their target units as quickly as possible.

- *The university should use a portion of any future pension contribution holidays as a source of matching funds, developing matching programs that are attractive and appropriate to different disciplinary groups.*
- *The university should re-examine Connaught Fund allocations, directing as much as possible towards graduate assistance, and also re-evaluate its strategy for matching funds.*

Distribution of Funding across/within Graduate Units

Recommendations:

That the current distribution of funding within and across graduate units be examined. The university should seek ways to promote equalisation of minimum funding for all doctoral-stream students based on the available external resources to individual graduate units (consistent with the guarantee).

That the current distribution of funding in all graduate units be re-examined and that a process be initiated that would allow some redistribution of funding, based on current need and accessibility to external awards, through an APF process.

That, in determining the distribution of current and new funding, faculty and units should not be penalised for having access to research grants, and that research grants should not be overburdened as a component of the guaranteed minimum level of financial support.

OISE/UT

As already noted, by far the greatest shortfalls in graduate student support are at OISE/UT. While the level of graduate student support available to students has increased since the 1996 merger, the average level of support available to Ph.D. students at OISE/UT is still less than one-third the University of Toronto average. The terms of the integration agreement that led to the creation of OISE/UT also limit the degree to which enrolment planning and the expansion of support available through some centrally administered funding mechanisms can be utilized to address the shortfall in graduate student support in this faculty. The integration agreement includes assumptions about enrolment, and established a relationship between enrolment and the allocation of operating support to this faculty. OISE/UT graduate students are not eligible to apply for almost all internal awards available to other students at the University of Toronto.

Recommendations:

That OISE/UT be given full consideration in the process of achieving guaranteed minimum levels of funding and in obtaining access to new sources of graduate assistance funding in accordance with the principles articulated in this report.

Enrolment Planning

The section on funding packages made a recommendation concerning graduate enrolment planning. The Task Force would like to underscore the importance of that recommendation. Quite aside from its intrinsic value, graduate enrolment planning is essential in helping units to address the shortfall.

6. Next Steps

As mentioned at the outset of this report, the work of the Task Force represents a starting point for what we believe to be an extremely significant process for the university. It is in fact the first time that the university has been able to assemble all the data needed to create a comprehensive picture of the level and distribution of graduate student funding. Judging from the vitality of input from the community into this process, the report has certainly provoked debate and arguably has heightened consciousness across graduate units about the limitations of funding available to many graduate students. The report does not pretend to be a panacea for all of the shortcomings in graduate funding, nor does it (or can it) prescribe solutions for all of the funding challenges facing graduate students and programs. If anything, we hope that the report has had a salutary effect in initiating a conversation involving students, graduate units, deans, and the central administration to address some of these issues.

In addition, there are recommendations in this report, such as the post-4 bursary, which will immediately advantage current graduate students, if implemented in September 2000. Establishment of minimum funding packages in many disciplines represents a more ambitious goal of the Task Force, one which will not see an immediate realization. To ensure that its recommendations remain a highest priority for the university, the Task Force is advocating that the following steps be taken immediately.

Monitoring of Implementation of Task Force Recommendations

The Task Force recommends the establishment of a committee that will oversee the university's progress toward its goal of achieving multi-year packages for doctoral-stream students and monitor other aspects of the implementation of this report. The committee should be established by the Provost and include membership from students, SGS, and faculty in graduate units in all four divisions. The terms of reference of the committee will be to monitor, and report to the Provost on the progress being made in the implementation of the Task Force's recommendations. In preparation for the work of this committee, the Provost should set specific funding targets and timelines for achieving the goals of this report.

Recommendations:

That, following the Task Force, the university establish an advisory committee to the Provost with representation from SGS and students and faculty from all graduate divisions, to ensure stewardship of graduate student funding and that strategies for eliminating the shortfall are being implemented effectively and expeditiously.

That OISE/UT be represented on the advisory committee to the Provost in order to facilitate communication between the advisory committee and the OISE/UT Dean's Committee on Student Funding.

Data Collection

In order to do its work properly, the advisory committee should be provided with ongoing and up-to-date information on divisional and graduate unit funding levels and practices. While significant progress has been made since the Tuohy/McCammond report in generating data

on graduate assistance, there needs to be ongoing production of data that will enable the university to measure the level of graduate student funding. These data must provide a more comprehensive picture of the sources and breakdown of that funding (including data which can be analyzed and reports generated in a routine fashion).

Recommendations:

That the university and SGS maintain ongoing and up-to-date information on graduate student funding through the graduate units, faculties, and SGS working closely with the university data management systems.

That the University set as a high priority the integration of various administrative data systems (AMS, ROSI) such that funding can be analyzed and reports generated in a routine fashion by graduate units, faculties, SGS, and the university.

7. Other Issues

In the course of its work, a number of other issues emerged as relevant to the way in which the University supports its doctoral-stream students.

Travel, Research and Conference Funds

In addition to basic living expenses and tuition, there are a variety of costs associated with being a graduate student and preparing oneself for an academic career that would not be covered by a minimum guarantee. In many departments, students

have little access to money for conferences or travel that will help to further their professional development and establish contacts in the academic world. In other cases, students are funding travel, field expenses and equipment that are required in order for them to complete their degree requirements. Currently there are limited resources available for these activities.

The School of Graduate Studies has a fund of \$45,000 available to students in the humanities and social sciences to help them with research activities outside Canada, but currently receives about \$500,000 in applications for this funding. This fund is restricted to financing experiences, such as fieldwork, which are required for completion of students' programs. The Task Force believes that this type of funding needs to be extended, through an increase in the size and a re-examination of the terms of reference of the SGS fund, or the creation of divisional funds for this purpose. (In addition, the terms of reference of the funds should be re-evaluated to see whether students who have to travel to do fieldwork in Canada could be eligible.)

In addition, students (particularly in some disciplines) need greater access to funding that would help them cover expenses such as equipment, conference travel, and research expenses. The Task Force recommends that graduate units and faculties establish their own funds for these purposes, perhaps through seeking funding from the Academic Priorities Fund.

Recommendations:

That funding for research activities be extended, either through an increase in the size of, or change in the terms of reference of, the SGS fund established for this

purpose and/or through the creation of divisional funds.

That, in addition, faculties and graduate units establish funds to help students cover travel, conference, equipment and other costs related to professional development and to completion of degree requirements.

Post-graduation Status

While the Task Force mandate was graduate funding, the status of newly graduated PhDs emerged as a related issue. In some divisions, graduates can expect to move fairly quickly into postdoctoral fellowships or employment. But in divisions where postdoctoral awards are rare, and where students are training primarily for highly-competitive tenure-track positions, new graduates may face a considerable "gap" upon graduation. There is some anecdotal evidence to suggest that students may delay dissertation completion to remain eligible for TA positions and research support. Allowing graduates to maintain forms of university affiliation might provide a bridge for new graduates and may assist in timely completion.

Recommendation:

Units might consider establishing forms of post-graduation status (such as limited-term adjunct or research associate positions) in order to provide some infrastructure support for career development/achievement of their graduate students. Non-teaching research centres and institutes could also be canvassed for their ability to provide similar forms of affiliation.

8. Conclusions

In fulfilling its terms of reference, the Task Force has been determined to

present a lucid and informed analysis of the state of graduate student funding at the University of Toronto and to craft recommendations that reinforce the importance of establishing viable multi-year packages of funding for doctoral-stream students. While our students are reasonably funded in comparison with their Canadian peers, the report underscores the disparity between our students' current funding packages and those of their American peers. In actual fact, our aspirational funding level of \$12,000 plus tuition would bring us into alignment with those institutions' current funding standards. The report also illustrates the significant size of the shortfall required to achieve our goals and emphasizes the limited potential that current sources of funding to graduate students will likely have in reducing that shortfall.

This report raises many challenges for the university. In striking this Task Force, the Provost set an ambitious objective for our institution: the provision of full multi-year packages for all of our doctoral-stream students. In its work and its report, the Task Force has attempted to articulate a set of principles and strategies which will guide the university towards the attainment of this important goal. The Task Force believes that its goals can be achieved. Our ability to recruit, mentor, and support exceptional graduate students is central to our mission as an internationally significant research institution. Therefore, it is essential that the university, including its graduate units and faculties, work collaboratively and vigorously to make the report's goals a reality. It is also crucial that, as part of its planning process, improving support to graduate students remain at the forefront of our institutional priorities.

LIST OF RECOMMENDATIONS

Funding Packages

Recommendations for Minimum Funding Packages

1. That the university, SGS, faculties, and graduate units work towards providing a guaranteed minimum level of financial support to all of its doctoral-stream students equivalent to \$12,000 per year (indexed according to cost-of-living) plus tuition (domestic or visa) for the first 5 years of study, including, where necessary, 1 year at the master's level. (As part of this process, it is assumed that units will undergo a review of their programs to define master's students who are legitimately in a doctoral-stream, versus those who are legitimately in a terminal master's.) The Task Force believes that, while \$12,000 plus tuition is an achievable target in the short term, a more appropriate goal is \$15,000 plus tuition. The Task Force also believes that high need students will naturally require higher levels of funding.
2. That units undergo graduate student enrolment planning with regard to academic priorities, supervisory capacity and critical mass, such that available funds can match the number of students registered. As part of this process, graduate units are encouraged to consider possibilities such as direct entry into their PhD programs.
3. To the extent that funding is provided by internal sources, units should strive to achieve equity between students with respect to the ratio between direct grants such as U of T Fellowships and awards that may require work, such as TA and RA positions. In particular, units should be cognizant of the impact of TA hours on available research time and endeavour to provide a similar ratio of award/grant funding to TA hours, to all students in the unit.
4. That each unit establish a coherent funding policy that is well advertised, transparent and reviewed annually by the unit. Units whose doctoral program requirements typically take longer than four years, or master's program requirements longer than one year, should also make clear what (if any) funding is available following the end of the minimum term of funding guaranteed by the university.

Post-4 Funding

Recommendations:

5. That post-4 doctoral students be provided with an as-of-right completion grant for years 5 and 6 of their program (and 7 where an extension is approved), equivalent to \$2,500 per year, effective September 2000. This grant would be a supplement to cur-

rent sources and streams of funding for graduate students, but could be a component of any guaranteed minimum funding package.

6. That the effectiveness of this grant in providing financial relief, influencing time-to-degree, impact upon numbers of post-4 students, etc. be assessed over a four-year period of operation, with a view to either continuing the program, limiting the program to certain divisions and/or re-directing the money to alternate programs. Whatever the decision, this money must remain targeted towards doctoral-stream student support.
7. That units review, and where necessary modify their programs, such that they are consistent with a reasonable time-to-degree for the discipline.

Ways to eliminate the shortfall in funding for graduate students

Fund-raising

Recommendation:

8. That the university's campaign continue to have as a high priority the raising of funds for graduate student support and that the central advancement office should coordinate a University-wide effort to raise the additional \$200 million by 2004. These funds would support the elimination of both the shortfall of minimum funding and enable the creation of larger packages in programs of research strength, making these programs internationally competitive.

Advocacy to Government Funding Programs

Recommendations:

9. That the university, its faculties, SGS, and graduate units seek new ways to obtain new funds from outside the university, using existing student award funds as leverage. Since most graduate units will autonomously manage student award funds, creative ways to obtain new dollars from external granting agencies, industry, and endowments should be promoted through matching programs. Granting agencies such as the Canadian Institutes for Health Research (CIHR) may plan program grant competitions for funding graduate students in specific fields of research.
10. That the university promote increased funding from the province and seek matched (endowment) funding as often as possible e.g., OGS and OGSST-equivalents, PREA, as recommended in "Growing Ontario's Innovation System: The Strategic Role of University Research."
11. That the university's leadership advocate for greater allocation of funds for graduate student awards by Federal granting agencies, e.g., NSERC, SSHRC, and CIHR.

Distribution of Funding across/within Graduate Units

Recommendations:

12. That the current distribution of funding within and across graduate units be examined. The university should seek ways to promote equalisation of minimum funding for all doctoral-stream students based on the available external resources to individual graduate units (consistent with the guarantee).
13. That the current distribution of funding in all graduate units be re-examined and that a process be initiated that would allow some redistribution of funding, based on current need and accessibility to external awards, through an APF process.
14. That, in determining the distribution of current and new funding, faculty and units should not be penalised for having access to research grants, and that research grants should not be overburdened as a component of the guaranteed minimum level of financial support.

Internal Sources of Funding

Recommendations:

15. That the university identify and, wherever possible, redirect revenues to graduate student funding, as follows:
 - The university should make significant investments to the graduate assistance budget to help those students in areas of greatest need, beginning September 2000.
 - Faculty-based endowments that have no specific designation should be re-assigned to graduate student funding.
 - The university should ensure that all funds raised during the OSOTF campaign be transferred to their target units as quickly as possible.
 - The university should use a portion of any future pension contribution holidays as a source of matching funds, developing matching programs that are attractive and appropriate to different disciplinary groups.
 - The university should re-examine Connaught Fund allocations, directing as much as possible towards graduate assistance, and also re-evaluate its strategy for matching funds.

OISE/UT

Recommendation:

16. That OISE/UT be given full consideration in the process of achieving guaranteed minimum levels of funding and in obtaining access to new sources of graduate assistance funding in accordance with the principles articulated in this report.

Next Steps

Monitoring of Implementation of Task Force Recommendations

Recommendations:

17. That, following the Task Force, the university establish an advisory committee to the Provost with representation from SGS and students and faculty from all graduate divisions, to ensure stewardship of graduate student funding and that strategies for eliminating the shortfall are being implemented effectively and expeditiously.
18. That OISE/UT be represented on the advisory committee to the Provost in order to facilitate communication between the advisory committee and the OISE/UT Dean's Committee on Student Funding.

Data Collection

Recommendations:

19. That the university and SGS maintain ongoing and up-to-date information on graduate student funding through the graduate units, faculties, and SGS, working closely with the university data management systems.
20. That the University set as a high priority the integration of various administrative data systems (AMS, ROSI) such that funding can be analyzed and reports generated in a routine fashion by graduate units, faculties, SGS, and the university.

Other Issues

Travel, Research and Conference Funds

Recommendations:

21. That funding for research activities be extended, either through an increase in the size of, or change in the terms of reference of, the SGS fund established for this purpose and/or through the creation of divisional funds.
22. That, in addition, faculties and graduate units establish funds to help students cover travel, conference, equipment and other costs related to professional development and to completion of degree requirements.

Post-graduation Status

Recommendation:

23. Units might consider establishing forms of post-graduation status (such as limited-term adjunct or research associate positions) in order to provide some infrastructure support for career development/achievement of their graduate students. Non-teaching research centres and institutes could also be canvassed for their ability to provide similar forms of affiliation.

MINORITY REPORT – TASK FORCE ON GRADUATE FUNDING

Positive Steps

Although we cannot endorse the final report of the Task Force on Graduate Funding, we recognize that the committee represents an important step in improving the lot of graduate students at the University of Toronto. The Task Force has initiated positive measures in several areas that deserve to be highlighted:

- The collection of data. The Task Force has established a mechanism for monitoring the funding of graduate students across the University. This will make the funding system much more transparent for students, and will allow for more informed comparisons with funding schemes in peer institutions in the U.S. A commitment has also been made to improve data collection and sharing among Canadian universities.
- The creation of transparency in graduate funding policies. The Task Force's recommendations that each graduate unit set a funding policy that is clearly defined for students before they enter their programs will allow students to allow students to make informed decisions about pursuing a graduate degree at this university.
- A *partial* recognition of the devastating effect of tuition increases on graduate students. With the recommendations for "Post-4" fees for current students, and with the indexing of funding packages to future tuition increases, it seems that the University is finally making a start, at least, towards understanding that tuition relief is badly needed by graduate students.
- A recognition of the need for some financial security for all graduate students, by recommending the creation of guaranteed minimum funding packages.
- An acknowledgment of the depth of the funding problems at OISE/UT. The Task Force's data and its discussions both serve to highlight what students at OISE/UT have known for some time: that the support they receive is far behind what is offered at most of the rest of the University.

Problems and Concerns

However, we have a number of serious concerns with both the Final Report of the Task Force, and the method by which it was produced. These objections fall into three categories: exclusions, implementation, and the treatment of Teaching Assistantships as funding.

Exclusions

There are a number of students who will not receive some of the benefits of the recommendations of the Task Force.

We feel that the committee did not have adequate justifications for excluding many students from these benefits. These include:

- The exclusion of 8th year PhD students from the "Post-4" bursary. In order to pursue their doctoral degrees into an 8th year, students must seek an extension from the School of Graduate Studies. The procedure is the same for students who wish to enter a 7th year of study. Students granted an extension from SGS for an 8th year are in good standing at the University. Yet the "Post-4" tuition rebate of \$2,500 will not be extended to them.
- The exclusion of 2nd year Master's students from guaranteed minimum funding packages. There are several doctoral stream Master's programs that require 2 years to complete. But the Task Force recommends guaranteed funding packages cover only one year of a Master's degree. Master's students should not be punished if the requirements of their program do not fit the mould of the Task Force.
- The exclusion of Ed. D. students at OISE/UT from guaranteed funding packages. The consequences of enrolling in an Ed. D. program, rather than a PhD program have not been clearly explained to OISE/UT students. Ed. D. students are doctoral students who should be included in the minimum funding packages.

Implementation

According to the Final Report of the Task Force, the guaranteed minimum funding packages will not be fully implemented until 2005. Most of the finances for these packages will come from new fund-raising. The Task Force's data identifies the amount of money required to bring all students up to the minimum funding level at \$15 to \$20 million. Hence, the University will need to raise at least \$300 million in new funds in the next five years. It is our sincere hope that sufficient funds can be generated in the near future. However, we believe that the Task Force's recommendations on allocating resources currently in the University's system (p.26 of the Report) need to be strengthened.

The University's annual operating expenses are about \$1 billion. The cost required to provide all students with minimum funding packages is \$15 to \$20 million – that is, only about 2% of the University's annual expenses. It would be hardly unreasonable for the Task Force to recommend that *at least* a major proportion of the of the \$15 - \$20 million should be found within the University's existing finances, its endowment, or its grants from governments. Moreover, if graduate funding has become in fact a top priority, and if the University does have confidence that new funds can be raised in the short-term, then an immediate and temporary infusion of cash from existing sources into graduate support would be neither irresponsible nor inconsistent with the Administration's over-all position. We urge the Provost to consider the following steps to find resources immediately for graduate funding:

- A temporary levy on the University's endowment of over \$1 billion.
- A guarantee that a proportion of the Basic Income Units that the University receives from the government (totalling about \$28, 500 for each student in years 1 to 4 of a PhD program), will be given directly to each student.
- An immediate reduction in graduate tuition. Since tuition is expected to be covered by guaranteed funding packages in the near future, we fail to understand the logic of keeping graduate tuition at such high levels. Moreover, the Governing Council's recent decision to raise tuition a further 5% for most students is highly inconsistent with both the spirit and the direction of the Task Force Report.

Treatment of Teaching Assistantships

Finally, the treatment of Teaching Assistantships in the guaranteed funding packages is problematic. The Report recognizes that "there is a divergence of opinion about whether TA-ships.... should be treated as a component of a graduate support package or strictly as work..." (footnote 4, p.14). It is our position that the University depends on its graduate students to support their academic programs by serving as Teaching Assistants and Graduate Assistants. It is therefore inappropriate for the University to consider this work to be part of its support packages.

Conclusion

The very creation of this Task Force indicates an increase in the University's focus on the welfare of its graduate students. It is our sincere hope that this attention is sustained in the coming years. The Task Force does lay out some significant guidelines and worthy goals, and an outline for how to achieve them. We are disappointed, however, that at this crucial starting point, some key considerations have been overlooked, considerable segments of the graduate student population have been left out, and certain important principles were not embraced by the Task Force on Graduate Funding. We urge both the Administration in general and the Provost in particular to consider carefully our objections and concerns.

Sincerely,

David Goutor

Representative, CUPE 3902

Stephanie Bourke,

Representative, CUPE 3907, OISE Graduate Students' Association, OISE International Students' Association

Graduate Students' Union

May 29, 2000

Dear members of the Task Force on Graduate Student Financial Support:

RE: Response to the Task Force on Graduate Student Financial Support

The GSU would like to congratulate you on the final draft of the report on Graduate Student Financial Support. The GSU executive has directed our student representatives to endorse the Report of the Task Force on Graduate Student Financial Support. We believe that all graduate students deserve at least the minimum funding packages, but we recognize that this document represents a starting point in dealing with the inadequate and inequitable level of funding currently available to many graduate students at the University of Toronto.

This report begins to address many of the concerns consistently raised by the GSU over the years. According to our student representatives, the process was fair and transparent. We recognize the challenges faced by the task force, and to have a report that addresses these issues is encouraging.

We are pleased to see the report recommend that the University:

- Provide all doctoral stream students with minimum multi-year funding packages starting at \$12,000 plus tuition (which will be indexed to the cost of living). Additionally, recognizing that \$15,000 plus tuition is a more appropriate goal.
- Provide a grant by right of \$2,500 for all graduate students in years 5 to 7.
- Acknowledge that graduate students at OISE/UT must be given full consideration to new sources of funding.
- Commit to the ongoing production of data in order to have an accurate picture of success or failure to implement the minimum funding packages.
- Establish an advisory committee to oversee progress of the implementation of the the recommendations.

We also understand that the University Administration has been very active in lobbying for new sources of graduate student funding. The recent announcement by the Provincial government to increase the number and amount of the Ontario Graduate Scholarship and the establishment of a research fund demonstrates the University of Toronto's commitment to improving graduate student funding.

While we will be directing our student representatives to endorse the report, we recognize that this report is only a starting point. Thus, while we do endorse many of the recommendations and the process with which the document was created, we do have a number of concerns, many of which parallel those of the CUPE 3907 and CUPE 3902:

- The need for the minimum funding packages by current students.
- The exclusion of Doctoral students, who are beyond the 7th year of their program, from the post 4 grant.
- No protection from further tuition increases for doctoral students in year 5 and above. Such increases would rapidly diminish the value of the grant by right.
- The exclusion of Master's students who are in their second year. The notion that a student could complete a Master's degree in one year is unrealistic for many programs. In fact, there are a number of programs where a second year is required.
- The exclusion of graduate students in professional programs from the funding packages.
- It should be recognized that the work performed by Teaching, and Graduate Assistants is not always related to a student's studies. The work performed by students who have a Teaching, or a Graduate Assistantship usually represents time spent away from their studies. Like other forms of employment, it represents a compromise between the necessity of completing schoolwork and the necessity of paying for the cost of living.
- Graduate students with special financial circumstances (e.g. students with families and/or dependents, and accessibility) should be given special consideration and additional funding above the minimum.
- The financial reality faced by international students was not sufficiently outlined.
- The inappropriateness of recommendations on academic requirements (and time to degree) in a report on financial aid. Academic requirements must not be determined by funding, if any pretense of quality is to be maintained.

Since we have been involved in raising awareness of many of the issues addressed in the document, we offer you several recommendations that we believe will begin to address our concerns as well as raise awareness of other significant issues:

- Ensure that an immediate allocation of resources be made in order to see that the recommended minimum funding packages begin to be implemented within the next year.
- Establish time lines and goals for the implementation of the minimum funding packages
- The terms of reference laid out by the Provost directed the task force "to make recommendations with respect to post 4 fees." The GSU has advocated for post-4 fees, but we are disappointed that a post 4 grant or bursary is the recommendation. We call upon the Provost to establish a Post 4 fee or ensure that the post-4 grant is indexed to any future tuition increases.
- Clearly set goals for the capital fund-raising program proposed in the report.
- Call upon the Provost to assess whether certain professional programs should be re-designated in order for the graduate students to be eligible for the minimum funding packages.
- Move toward removing Teaching, and Graduate Assistantships from the funding packages. This would remove the added burden that many students face when trying to complete their academic work, while working in areas that may be unrelated to their academic program.
- Provide additional funding sources for international students with additional expenses.
- The Provost commence an analysis examining issues raised during task force discussions that were outside of the funding task force mandate. For example, the SGS approved time to completion goal of four years. It is our belief that this goal is unfeasible for many graduate programs. Other issues included: extra program costs and requirements; supervisory practices; training opportunities; and expanded post-doctoral opportunities.
- Assemble the advisory committee upon approval of the report at governance in order to ensure that the data collection continues and the implementation process begins. Furthermore, the Provost should ensure that the composition of the committee includes representatives from GSU and the CUPE unions.

In closing, we are encouraged by the commitment that the University has shown in taking these first steps towards improving the current strategy for graduate student funding. We look forward to working with the University Administration in the coming years in order to ensure that the goals and principles laid out in this report are implemented.

Sincerely,

Paul Tsang

Past President, GSU

Student Representative

Jorge Sousa

President

GSU

Appendix 1

TASK FORCE MEMBERSHIP

Professor Ian Orchard, Vice-Provost, Students (Chair)
Ms Stephanie Bourke (Graduate Student, OISE/UT)*
Professor Jonathan Freedman (Graduate Coordinator, Department of Psychology, Faculty of Arts and Science)
Mr. David Goutor (Graduate Student, Department of History)*
Professor Glen Jones (Chair, Department of Theory and Policy Studies in Education, OISE/UT)
Professor Don Moggridge (Vice-Dean, School of Graduate Studies)
Professor Heather Murray (Department of English, Faculty of Arts and Science)
Professor Emmet Robbins (Chair, Department of Classics, Faculty of Arts and Science)
Mr. Paul Tsang (President, Graduate Students' Union)
Ms Rachel Urowitz (Graduate Student, Centre for the Study of Religion)
Professor Ron Venter (Department of Mechanical and Industrial Engineering, Faculty of Applied Science and Engineering)
Professor Robert Vipond (Chair, Department of Political Science, Faculty of Arts and Science)
Dr. Catharine Whiteside (Associate Dean, Inter-Faculty and Graduate Affairs, Faculty of Medicine)
Ms Lynn Snowden (Secretary)
*These two members did not sign the final report, instead submitting a minority report. All other members signed the report.

Appendix 2

Submissions Received:*

Division I: Humanities

Aase, Lara – PhD student, Spanish and Portuguese
Adler, Adam – PhD. student, Music
Barnes, Christopher – Chair, Department of Slavic Languages and Literatures
Bohaker, Heidi – PhD student, History
Brasen, Bernard – PhD student, Drama
Burns, John Conor – President and Wittmann, Claudia – GSU Representative, Institute for the History and Philosophy of Science and Technology (IHPST)
Carstairs, Catherine – PhD student, History
Choo, Jessey J.C. – PhD student, East Asian Studies
Corman, Brian – Chair, Department of English
Dowler, Wayne – Professor of History, University of Toronto at Scarborough
Foy, Nathalie, President, Graduate English Association
Gearey, Jay – PhD student, Classics
Gourlay, Kristi – PhD student, Centre for Medieval Studies
Graduate History Society
Horguelin, Christophe – PhD student, History
Horta, Paulo Lemos – PhD student, English
Hwang, Merose – PhD. Student, East Asian Studies
Kahnemuyipour, Arsalan – PhD student, Linguistics
Katz, Bernie – Associate Dean, Humanities, SGS
Kim, Sunyoung on behalf of the Graduate Students, Department of Germanic Languages and Literatures
Louie, Siri – PhD student, History
Hebert, Valerie – PhD student, History
Lybarger, Lowell – President, Music Graduate Students' Association
MacKendrick, Kenneth G. – President, Centre for the Study of Religion, Student Association
Masemann, Charlotte – PhD student, Medieval Studies
Mayeda, Graham, on behalf of the Graduate Philosophy Students' Union
Mullally, Sasha – PhD student, History
Name withheld, – PhD student, Humanities
Plach, Eva – PhD student, History
Pittenger, Laurence – PhD student, History
Pruessen, Ron – Chair, Department of History
Siena, Kevin – PhD student, History
Sohm, Philip – Chair, Department of Fine Art
Stacy, Sarah – Graduate student, Museum Studies
Tabah, Joshua – Graduate student, Philosophy
Trevithick, Scott – PhD student, History
Tully, R.E. – Professor, Philosophy
Unger, Susanne – Masters student, Anthropology
Wolters, Benita – PhD student, Music

Division II: Social Sciences

Acker, Sandra – Chair, Department of Sociology and Equity Studies, OISE/UT
Anthropology Graduate Students' Union CUPE 3907, Graduate Assistants, OISE/UT
Eid, Paul – PhD student, Sociology
Ferren, Donald, PhD student, OISE/UT
Fumia, Doreen – PhD student, OISE/UT
Gadallah, ZuZu – Graduate student, Geography
Gotlib, Lesley – PhD student, Anthropology
Hall, Jennifer – PhD student, Geography
Handcock, Rebecca – Graduate student, Geography
Hawkins, Alicia – PhD student, Anthropology
Jenkins, Willie – PhD student, Geography
Krikorian, Jacqueline – PhD student, Political Science
Levin, Michael – Former graduate coordinator, Anthropology
Luong, Hy V. – Chair, Department of Anthropology
Melino, Angelo – Graduate Director, Economics
Mirchandani, Kiran, Assistant professor, Adult Education, Community Development and Counselling Psychology, OISE/UT

Moerman, Benjamin – Political Science
Montgomery, Kaja – Graduate student, OISE/UT
Morrell, Amish – PhD student, Dept. of Adult Education, Community/ Development and Counseling Psychology, OISE/UT
Randall, Alison – Masters student, Institute for Child Study, OISE/UT
Smyth, Elizabeth – Associate Chair, Department of Curriculum, Teaching and Learning, OISE/UT
Svede, Valda – Ed.D. student, Theory and Policy Studies, OISE/UT
Thompson, Sarah – M.Ed. student, Counselling Psychology, OISE/UT
Walks, Alan – PhD Student, Geography
Wikes, Rima – Graduate student, Sociology
Zijdemans, Anita – Part-time student, OISE/UT

Division III: Physical Sciences

Burns, Chris, on behalf of the Graduate Astronomy Students' Association
Farrar, David – Chair, Department of Chemistry
Fawcett, Jeff – Chair, Department of Geology
Halla, Jamie – Graduate student, Chemistry
Harmantzis, Fotios – Graduate student, Electrical and Computer Engineering
Henderson, Grant – Graduate Coordinator, Geology
Kluger, Ronald – Professor, Associate Chair and Graduate Coordinator, Chemistry
Moucha, Rob – Graduate student, Physics
Nikkari, Jason – M.A.Sc. student, Mechanical and Industrial Engineering
Pasupathy, Vani – M.A.Sc. student, Electrical and Computer Engineering
Sinervo, Pekka – Chair, Department of Physics
Willoughby, Eleanor – Graduate student, Physics
Wonham, Murray, Professor, Electrical and Computer Engineering
Wilson, Brian – Masters student, Physics

Division IV: Life Sciences

Boonstra, Rudy – Professor, Life Sciences, University of Toronto at Scarborough
Bussiere, Luc – PhD student, Biology Group, UTM
Challis, John – Chair, Department of Physiology
Corson, Tim – Graduate Student, Institute of Medical Science
Deber, Raisa – Professor, Health Administration
Dunham, David – Associate Chair, Zoology
Ferbinteanu, Janina – PhD student, Psychology
Joordens, Steve – Professor, Life Sciences, University of Toronto at Scarborough
Kidd, Bruce – Dean, Faculty of Physical Education and Health
Khayat, Zayna (writing on behalf of graduate students in biochemistry)
Mound, Jon – PhD student, Physics
Nippak, Pria – PhD student, Institute of Medical Science
Osmond, Daniel – Former graduate coordinator, Physiology
Reisz, Robert – Professor, Biology, University of Toronto at Mississauga
Polzer, Jessica – PhD student, Public Health Sciences
Siddiqui, Najeeb – PhD student, Botany
Watts, Tania – Professor, Immunology
Borst, Christopher (program unknown)
Harmantzis, Fotios (program unknown)
McColl, James and Martin, Ann, Alumni
McNutt, Robert, Principal, University of Toronto at Mississauga
Obrist, Urs (program unknown)
Perkins, Ruth – Executive Assistant, GSU
Sastri, Suneil – MA, (program unknown)

*Some individuals/groups sent more than one submission to the Task Force.

Appendix 3

SUBMISSIONS TO THE TASK FORCE:

Summary of Issues Raised

General Points:

- If multi-year packages are introduced, these should be extended to students currently enrolled, not just the entry cohort
- The cost of living in Toronto is a major concern, even for students with generous funding support. It is important that the university use realistic amounts when determining cost of living for graduate students. The university also needs to be realistic about the amount of time that a Ph.D. actually takes, recognizing that the requirements and exigencies of many doctoral programs (such as bad weather: Astronomy) can make it difficult to complete in four years.
- At least in some disciplines (i.e. Music) our support packages are not as attractive as those offered in peer institutions in the States
- There are differences across divisions in levels of support, with students in some areas appearing to suffer acute financial stress; where funding is very limited, graduate enrolment planning, and possibly a reduction in intake are very important.
- Students who are well funded emphasize how important solid funding has been in enabling them to complete their degrees more quickly than many peers, who have to work to support their studies. The necessity for many students to work to support themselves is an impediment to completing.

Tuition/Post-4 Related

- The Task Force received a proposal to institute a fixed program fee: that is, students would pay a maximum of four years' fees after which they can choose to lapse. Fee charges would resume at a reduced rate the year of the doctoral defence or, should students continue to require some limited access to university resources or wish to be eligible for employment as TAs, they would be charged a reduced fee for enrolment. The author of the proposal posits the following advantage of this scheme: it maintains an incentive to finish in four years while reducing costs for students and allowing for completion of degree. Specification of a fixed cost for degree would give students more financial control and a "clear set of expectations against which to judge financial packages."
- There should be tuition waivers or tuition relief based on financial need.
- There should be a reduction of tuition through a re-introduction of the post-program fee or other means. The following rationale was offered to support this: many students, regardless of discipline, do much of their post-course training and study off campus. If on campus, many do not significantly use the university's resources, and there are questions raised in at least one submission about the worth of these resources.
- Students should pay a fixed yearly fee (that is, student pays same fee from outset of program, regardless of tuition increases).

How financial support should be calculated or defined:

- The university should establish fixed minimum amount funding and guaranteed packages for all students; it should establish \$15,000 as minimum amount for all graduate students, *but this amount must be augmented by TAs and RAs*, with \$15K indexed to tuition.
- Students should be required to do TAs and RAs as part of their doctoral experience: University should admit only as many students as they can offer these slots to.
- We should ensure that students who are receiving external funding receive some financial benefit for their efforts and achievement.
- It is important to provide funding for students with financial need and allocate TAs accordingly, and to define TAs as a constituent of the entire financial support package.
- Funding packages must be indexed to tuition, perhaps \$10 – 12K plus tuition, not including TA income which should be counted not as funding but employment.

International Students:

- International students experience added pressures because of higher fees and restrictions on taking work outside the University. The Task Force is urged to address specifically the funding levels available to these students relative to other Canadian universities.
- There were a number of submissions (particularly from faculty members) opposing the idea of a post-4 bursary because of concerns that this would dilute the incentive for students to finish in four years. Some faculty members supported the idea of post-4 support, but expressed reservations about extending this beyond five years because it "might encourage malingering".
- External fellowship support provides generous, extremely important support to only a limited number of students in each department. In some disciplines, support for many students *must* as a matter of principle come from teaching assistantships and from supervisors' grants. One submission argues that *all* students should receive additional support from their supervisors.
- The university needs to target funding to the "high demand fields of study" and reduce enrolment in disciplines in which there is "chronic over-enrolment" as evidenced by "high unemployment in such fields of study following graduation.. The author argues that enrolment should be tailored in the latter disciplines to suit the demands of the job market, only the best students should be admitted, but funded generously.

Specific Points Raised:

- The university should increase number of, and funding to, Career Development and Research Fellowships, awarded to students in Divisions I and II who complete their Ph.D.s in four years.
- The university should urge SSHRC to change its funding policy which allows Canadians holding SSHRC's to study outside Canada. The country should keep funding for SSHRCs for those pursuing degrees at Canadian universities.
- There should be better funding for travel to conferences.
- Students (in Medicine) working in affiliated hospitals are getting preferential treatment in the funding they receive because of the generous stipends that hospitals can offer students.

Appendix 4

Department of Zoology

University of Toronto

To: Zoology Graduate Office

From: _____ Re: _____

Applicant for Degree

- 1. I am willing to accept the above student. Yes [] No []
- 2. I have research funds available to support the student's project.

(Specify grant) _____

3. The Department of Zoology requires all incoming graduate students to receive a minimum level of personal support, guaranteed for two years at the M.Sc. level and four years for the Ph.D. degree. For 1999–2000 (for students entering the graduate program in May or September 1999 or in January 2000), the guaranteed minimum level will be \$15,800 p.a. (\$18,800 p.a. for visa students paying the higher differential fees.) Supervisors are required to increase annual support in an amount commensurate with any future Departmental increases, during the 2 or 4 year term of this agreement. Minimum support can include teaching assistantships (demonstrating) and the Department will provide, wherever possible, a minimum of one TA slot. However, this must be confirmed in order to be listed below.

Please indicate below all sources of personal support for the above student. Unless the student is guaranteed a minimum level of support of \$15,800 p.a. (or \$18,800 p.a. for visa students paying the higher fees) in total, it will be impossible for the Graduate Office to recommend acceptance to the School of Graduate Studies. N.B: The guaranteed minimum income will be revised on an annual basis. The revised amounts are applicable to all graduate students. The information provided by you will be communicated to the student.

Teaching Assistantship _____ \$ _____

(Confirmed for which course?)

Scholarship/Fellowship _____ \$ _____

(Please specify)

Support from Grant* _____ \$ _____

(Please specify grant if different from that in item 2 above)

Other _____ \$ _____

(Please specify)

TOTAL \$

Signed _____ Date _____

(Supervisor & Co-Supervisor)

Approved _____

Date _____

(Associate Chair)

* 1. Subject to availability of funds.

It is understood that continued support from the grant will be contingent upon the student maintaining good standing. Good standing requires a report of at least satisfactory progress from the annual (Ph.D) or biannual (M.Sc) Advisory Committee meetings.

TABLE 1A
Graduate Student Funding
1998-99

Division	FTE Enrolment (a)	U of T Open Fellowships	Connaught	OGS	NSERC	MRC	SSHRC	Other	OSOTF	TA Funding (b)	RA Funding (c)	OSAP	UTAPS	Total Funding	Average Funding Per FTE Student	Average Funding Per FTE Student (Excluding OSAP and UTAPS)	Average Funding Per FTE Doctoral Stream Student (Excluding OSAP and UTAPS)
I	1274.9	3,526,989	426,385	1,363,785	0	0	1,284,000	1,116,330	61,742	3,280,709	274,314	2,651,660	96,171	14,082,085	11,046	8,890	9,047
II (excluding OISE)	1527.8	3,385,598	252,855	877,566	51,800	0	829,098	715,553	81,378	3,294,833	552,642	2,975,872	139,500	13,156,695	8,612	6,572	11,584
III	1449.6	3,134,332	324,835	1,094,660	4,256,696	39,160	0	1,081,111	151,912	3,554,272	6,699,533	1,785,324	82,200	22,204,135	15,317	14,029	15,436
IV	2201.6	3,867,854	285,730	1,455,302	1,724,258	2,051,296	174,510	3,523,393	566,830	2,395,950	11,378,538	1,979,711	135,594	29,538,966	13,417	12,456	14,631
OISE (d)	1374.7	750	0	521,796	34,800	0	465,360	1,210,276	40,000	1,748,053	127,284	3,195,478	280,150	7,623,947	5,546	3,018	Not Available
Totals (excluding OISE)	6453.9	\$13,914,773	\$1,289,805	\$4,791,313	\$6,032,754	\$2,090,456	\$2,287,608	\$6,436,387	\$861,862	\$12,525,764	\$18,905,027	\$9,392,667	\$453,465	\$78,981,880	\$12,238	\$10,712	\$12,790
Totals (including OISE)	7828.6	\$13,915,523	\$1,289,805	\$5,313,109	\$6,067,554	\$2,090,456	\$2,752,968	\$7,646,663	\$901,862	\$14,273,817	\$19,032,311	\$12,588,145	\$733,615	\$86,605,828	\$11,063	\$9,361	Not Available

Note: Rows and columns may not total accurately because of rounding.

- (a) Based on November 1, 1998 FTE count. Students (169 FTE) in self-funded programs are not included in this count. Special students are included only when they receive funding.
- (b) There was a total of \$15,802,437 in TA payments made from September, 1998-August, 1999 (source:HRIS). These tables do not include \$1,134,074 in TA payments that were made to undergraduates and to previous graduate students who were not registered in 1998-1999. \$1,687,861 in TA payments were made to recipients who were not students or which could not be matched to students because of incomplete data from HRIS.
- (c) There was a total of \$19,728,722 in RA payments made from September, 1998-August, 1999 (source:HRIS). \$14,828,446 in RA payments were matched to registered graduate students and are shown in these tables. These data were augmented with data obtained from Faculty of Medicine departments regarding payments that are made through hospitals to graduate students.
- (d) OISE data were not available broken down by department and program. OISE fellowships are included in the "Other" column.

TABLE 1B
Graduate Student Funding
1998-99
Division I - Humanities

Department	Program (a)	FTE Enrolment (b)	U of T Open Fellowships	Connaught	OGS	NSERC	MRC	SSHRC	Other	OSOTF	TA Funding (c)	RA Funding (d)	OSAP (e)	UTAPS	Total Funding	Average Funding Per FTE Student	Average Funding Per FTE Student (Excluding OSAP and UTAPS)
CLA	DOC	17	21,000	34,340	43,483				18,048		67,726		33,655	0	218,252	12,838	10,859
CLA	MAST	7	16,500		23,718				23,000		1,380		9,625	0	74,223	10,603	9,228
COL	DOC	35	88,300	15,170	83,013			83,100	30,512		49,166	5,899	81,263	0	436,423	12,469	10,147
COL	MAST	8	7,900						23,490				14,520	0	45,910	5,739	3,924
DRA	DOC	58	246,174	15,170	94,872			16,620	4,750		112,377	198	177,322	550	668,033	11,518	8,451
DRA	MAST	17.2											72,751	8,600	81,351	4,730	0
EAS	DOC	22	75,200	30,340				49,860	6,350		84,145		50,363	0	296,258	13,466	11,177
EAS	MAST	9.2	12,889						1,555		50,285		31,150	1,600	97,479	10,596	7,036
ENG	DOC	109	421,467	30,340	106,731			232,680	101,467	22,640	430,832	47,543	139,094	6,350	1,539,144	14,121	12,786
ENG	MAST	52.6	115,200		23,718				48,864		8,829		92,755	9,000	298,366	5,672	3,738
FAH	DOC	17	83,149	15,170	35,577			49,860	62,303		71,160		14,300	1,250	297,192	17,482	16,567
FAH	MAST	21.5							5,000		35,191		36,475	4,900	117,143	5,449	3,524
FRE	DOC	58	196,110	19,170	59,295			83,100	6,141		298,819		97,907	1,750	762,292	13,143	11,425
FRE	MAST	19.9	60,000		11,859				4,665		63,445		28,415	3,650	172,034	8,645	7,034
GER	DOC	15	32,740		59,295				8,500		49,931	1,000	52,909	0	204,375	13,625	10,098
GER	MAST	4.3	33,500						2,564		16,996		9,350		62,410	14,514	12,340
HIS	DOC	131.3	552,341	32,340	47,436			297,540	99,570	300	471,368	34,109	254,765	3,900	1,793,669	13,661	11,691
HIS	MAST	50.9	22,343		23,718				21,803		4,264		95,859	5,900	173,887	3,416	1,417
HPS	DOC	20	73,386	13,135	35,577			57,360	2,000		72,480	2,719	54,079	1,500	312,236	15,612	12,833
HPS	MAST	25.6	4,887	15,170	23,718				29,419		68,477	1,575	23,938	2,386	169,570	6,624	5,986
ITA	DOC	39.3	130,491	30,340	47,436				9,596		150,785		27,776	0	396,424	10,087	9,380
ITA	MAST	12	46,000						1,555		2,630		36,448	500	87,133	7,261	4,182
LIN	DOC	22	72,000	8,000	47,436			49,860	23,288		111,996	34,000	60,508	800	407,888	18,540	15,754
LIN	MAST	11.6	5,218		23,718				10,800	4,000	20,734	7,700	30,522	500	103,192	8,896	6,222
MSL	PMAS	32	58,247						5,682			26,400	131,480	21,200	243,009	7,594	2,823
MST	DOC	57	160,800		94,872			83,100	144,891		126,673	37,278	77,810	800	726,224	12,741	11,362
MST	MAST	15.9	38,500	15,170					29,555	310		15,120	23,275	250	122,180	7,684	6,205
MUS	DOC	19	80,761	19,170	11,859			16,620	20,300	1,600	38,403	300	0	0	189,013	9,948	9,948
MUS	MAST	46.7	103,281		23,718				18,560	20,400	34,379	10,750	88,589	5,750	305,427	6,540	4,520
NMC	DOC	47	127,340	19,170	35,577			33,240	36,500		83,028	15,000	143,113	3,975	496,943	10,573	7,444
NMC	MAST	27.2	38,800						5,000		183		51,128	1,910	97,021	3,567	1,617
PHL	DOC	109	322,870	45,510	146,261			149,580	110,297		395,885	19,390	241,805	700	1,432,298	13,140	10,916
PHL	MAST	14.3			23,718				2,000		64,377		27,824	4,600	122,519	8,568	6,300
RLG	DOC	49	187,263	30,340	106,731			48,240	22,382		132,275	8,333	124,103	1,550	661,217	13,494	10,930
RLG	MAST	9.8			11,859				3,110				25,585	250	40,804	4,164	1,527
SAS	MAST	2	7,474										12,021		19,495	9,748	3,737
SLA	DOC	22	33,102	30,340	47,436			16,620	48,000		35,957		97,543	1,550	310,548	14,116	9,612
SLA	MAST	5.3	19,629						18,514	12,492	2,568		22,860		76,063	14,352	10,038
SPA	DOC	26	32,127	8,000	71,154			16,620	82,814		103,512	7,000	45,611	0	366,838	14,109	12,355
SPA	MAST	9.3							23,485		20,452		13,164	500	57,601	6,194	4,724
Division I Totals		1274.9	\$3,526,989	\$426,385	\$1,363,785	\$0	\$0	\$1,284,000	\$1,116,330	\$61,742	\$3,280,709	\$274,314	\$2,651,660	\$96,171	\$14,082,085	\$11,046	\$8,890

Note: Rows and columns may not total accurately because of rounding.

(a) Doc=Doctoral Students; MAST=Doctoral Stream Master's Students; PMAS=Professional Master's Students; Special students are included only when they received funding.

(b) Based on November 1, 1998 FTE count.

(c) There was a total of \$15,802,437 in TA payments made from September, 1998-August, 1999 (source: HRIS). These tables do not include \$1,134,074 in TA payments that were made to undergraduates and to previous graduate students who were not registered in 1998-1999. \$1,687,861 in TA payments were made to recipients who were not students or which could not be matched to students because of incomplete data from HRIS.

(d) There was a total of \$19,728,722 in RA payments made from September, 1998-August, 1999 (source: HRIS). \$14,828,446 in RA payments were matched to registered graduate students and are shown in these tables. These data were augmented with data that were obtained from Faculty of Medicine department chairs regarding payments that are made through hospitals to graduate students.

(e) There was a total of \$154,032 in OSAP payments to graduate students that could not be matched to graduate students registered in 1998-99.

TABLE 1C
Graduate Student Funding
1998-99
Division II - Social Sciences

Department	Program (a)	FTE Enrolment (b)	U of T Open Fellowships	Connaught	OGS	NSERC	MRC	SSHRC	Other	OSOTF	TA Funding (c)	RA Funding (d)	OSAP (e)	UTAPS	Total Funding	Average Funding Per FTE Student	Average Funding Per FTE Student (Excluding OSAP and UTAPS)
ANT	DOC	77	268,052	16,170	118,590			114,438	59,472		314,307	14,250	103,753	900	1,009,932	13,116	11,757
ANT	MAST	38	43,898		35,577				7,550		98,616	24,059	144,373	14,500	368,573	9,699	5,518
ARC	PMAS	16.3							101,940	8,000	27,426		47,505		176,871	10,851	7,937
RUS	MAST	13.3	39,960		11,859				1,900				62,395	2,000	126,114	9,482	4,641
CRI	DOC	16	83,236	19,170	11,859			49,860	18,400		99,525	6,672	18,069		306,791	19,174	18,045
CRI	MAST	21.2		19,170	11,859				13,910		3,863	8,680	69,211	2,500	129,193	6,094	2,711
ECO	DOC	48	188,110	15,170	23,718			58,170	11,600		497,589	7,664	55,781	0	857,802	17,871	16,709
ECO	MAST	55.2	86,750						16,005		369,997	7,151	102,033	4,400	586,336	10,622	8,694
GGR	DOC	36	179,000	15,170	83,013			33,240	58,441	2,000	221,721	32,153	19,118		643,856	17,885	17,354
GGR	MAST (f)	85.2	145,248	35,210	27,671	34,500			34,496	1,370	203,472	77,386	146,988	7,900	714,241	8,383	6,565
IRE	DOC	9	5,875	1,000	23,718			33,240	10,800		63,839		0		138,472	15,386	15,386
IRE	PMAS	34.1	105,910		23,718				2,000		2,980		73,193	2,600	210,401	6,170	3,947
LAW	DOC	32.6	50,776	39,775	23,718			49,860	30,375		8,561	102,808	20,846		326,719	10,022	9,383
LAW	MAST	17.3	61,000						16,610			27,750	7,154		112,514	6,504	6,090
LIS	DOC	23	211,200		31,624			16,620	10,000		35,671	500			305,615	13,288	13,288
LIS	PMAS	163.8	126,408						2,000				468,617	44,900	641,925	3,919	784
MGT	DOC	33	323,000	15,170	35,577				71,973	9,000	112,457		51,311	0	618,488	18,742	17,187
MGT	PMAS	293.79	105,396		19,765	17,300			37,850	29,000	49,363	30,000	649,018	0	937,692	3,193	983
POL	DOC	114	423,076	31,340	90,919			216,060	112,641	1,450	571,393	91,724	115,813	550	1,654,966	14,517	13,497
POL	MAST	57.8	52,153		23,718				3,110		55,751	7,578	104,628	4,900	251,838	4,357	2,462
POL	SPECIAL	4.2										200	9,350	0	9,550	2,274	48
SOC	DOC	57	179,800	15,170	71,154			157,890	37,872		422,988	23,755	97,484	0	1,006,113	17,651	15,941
SOC	MAST	14	34,000		11,859				4,666		37,800	18,424	19,223	250	126,222	9,016	7,625
SWK	DOC	48	200,500	30,340	106,731			99,720	14,000	18,000	92,938	58,645	2,496		623,370	12,987	12,935
SWK	PMAS	220.1	472,250		90,919				37,942	12,558	4,577	13,243	587,513	54,100	1,273,102	5,784	2,869
OISE (g)		1374.7	750	0	521,796	34,800	0	465,360	1,210,276	40,000	1,748,053	127,284	3,195,478	280,150	7,623,947	5,546	3,018
Division II Totals (excluding OISE)		1527.8	\$3,385,598	\$252,855	\$877,566	\$51,800	\$0	\$829,098	\$715,553	\$81,378	\$3,294,833	\$552,642	\$2,975,872	\$139,500	\$13,156,695	8,612	\$6,572
Division II Totals (including OISE)		2902.5	\$3,386,348	\$252,855	\$1,399,362	\$86,600	\$0	\$1,294,468	\$1,925,829	\$121,378	\$5,042,886	\$679,926	\$6,171,350	\$419,650	\$20,780,642	\$7,160	\$4,889

Note: Rows and columns may not total accurately because of rounding.

(a) Doc=Doctoral Students; MAST=Doctoral Stream Master's Students; PMAS=Professional Master's Students; Special students are included only when they received funding.

(b) Based on November 1, 1998 FTE count.

(c) There was a total of \$15,802,437 in TA payments made from September, 1998-August, 1999 (source: HRIS). These tables do not include \$1,134,074 in TA payments that were made to undergraduates and to previous graduate students who were not registered in 1998-1999. \$1,687,861 in TA payments were made to recipients who were not students or which could not be matched to students because of incomplete data from HRIS.

(d) There was a total of \$19,728,722 in RA payments made from September, 1998-August, 1999 (source: HRIS). \$14,828,446 in RA payments were matched to registered graduate students and are shown in these tables. These data were augmented with data that were obtained from Faculty of Medicine department chairs regarding payments that are made through hospitals to graduate students.

(e) There was a total of \$154,032 in OSAP payments to graduate students that could not be matched to graduate students registered in 1998-99.

(f) Master's students in Geography include doctoral stream and professional master's students.

(g) It was not possible to separate OISE data by department or by program. OISE fellowships are included in the 'Other' column.

TABLE 1D
Graduate Student Funding
1998-99
Division III – Physical Sciences

Department	Program (a)	FTE Enrolment (b)	U of T Open Fellowships	Connaught	OGS	NSERC	MRC	SSHRC	Other	OSOTF	TA Funding (c)	RA Funding (d)	OSAP (e)	UTAPS	Total Funding	Average Funding Per FTE Student	Average Funding Per FTE Student (Excluding OSAP and UTAPS)
AER	DOC	31.6	158,653	15,170	35,577	72,700			12,700		32,502	95,870	26,445	0	449,617	14,228	13,392
AER	MAST	32	22,000			69,200			8,000		31,289	135,036	31,324	1,800	298,649	9,333	8,298
AER	PMAS	4.8							1,894						1,894	395	395
AST	DOC	21	63,300		35,577	57,300			62,442		85,919	95,181			399,719	19,034	19,034
AST	MAST	3	13,800			17,300			14,800		3,863	2,000			51,763	17,254	17,254
BME	PMAS	5													0	0	0
CHE	DOC	55	128,100	15,170	54,530	131,900	19,730		32,200		69,990	253,777	55,746	0	761,143	13,839	12,825
CHE	MAST	72	176,747		35,577	256,200			59,808		88,741	505,956	130,185	0	1,253,214	17,406	15,598
CHE	PMAS	11.8	2,000								2,849	18,750	118,171	8,050	149,820	12,697	2,000
CHM	DOC	78	183,600	15,170	47,436	165,100	19,430		60,027	5,250	315,791	523,795	52,000		1,387,599	17,790	17,123
CHM	MAST	55	97,200		11,859	190,400			40,643		301,497	431,765	3,789		1,077,153	19,585	19,516
CIV	DOC	32.3	90,900	15,170	47,436	144,799			1,000		85,857	158,654	77,534	150	621,500	19,241	16,836
CIV	MAST	61	138,350		35,577	272,095			22,665	5,000	99,867	215,064	76,511	2,300	862,429	14,138	12,846
CIV	PMAS	27.3	13,633						7,929		2,980	600	77,473	0	107,615	3,942	1,104
CSC	DOC	75	129,450	9,435	23,718	151,342			56,400		193,595	385,069	38,507		987,516	13,167	12,653
CSC	MAST	59.6	143,729	15,170	74,295	311,600			31,955		146,978	249,595	8,076	1,550	982,947	16,492	16,331
ECE	DOC	104.9	314,808	57,510	189,637	277,800			32,700	5,000	304,879	701,216	102,796	1,100	1,987,446	18,946	17,956
ECE	MAST	107	325,634		77,436	665,732			28,155		257,655	576,504	66,654	1,400	1,999,169	18,684	18,048
ECE	PMAS	28.8									5,105	12,850	9,164	750	27,869	968	623
GLG	DOC	17	46,400		23,718				7,578		40,758	92,749			211,203	12,424	12,424
GLG	MAST	34.2	47,200		15,000				19,314	99,662	87,291	155,861	65,296	21,450	511,074	14,944	12,407
MAT	DOC	62	97,022	30,340	50,577	186,133			164,972		345,165	191,636	13,427		1,079,272	17,408	17,191
MAT	MAST	12.5	7,904	15,170		72,632			12,447		70,247	6,201	53,141	250	237,992	19,039	14,768
MAT	SPECIAL	2.6									23,859			0	23,859	9,176	9,176
MIE	DOC	85	224,800	91,020	46,624	136,698			71,900		160,694	486,697	159,522	1,700	1,379,654	16,231	14,334
MIE	MAST	92	190,527	15,170	26,859	459,333			30,440		139,473	564,215	100,166	1,450	1,527,633	16,605	15,500
MIE	PMAS	52.6	5,000		11,859	17,300			9,470		745	2,000	231,869	35,750	313,993	5,969	882
MIE	SPECIAL	7.3									166		17,229	0	17,395	2,383	23
MMF	MAST	16				17,300									17,300	1,081	1,081
MMS	DOC	20	85,400		50,577				17,605	3,000	46,306	134,911	34,606	250	372,655	18,633	16,890
MMS	MAST	34	59,700		7,906	17,300			17,440		39,193	203,492	65,518	0	410,549	12,075	10,148
MMS	PMAS	1.9	4,000						4,000			1,500			9,500	5,000	5,000
PHY	DOC	89	218,000	15,170	133,590	405,432			218,562	20,000	246,881	351,765	53,162	0	1,662,562	18,680	18,083
PHY	MAST	18	63,000		35,577	88,300			15,500	14,000	53,981	90,964			361,322	20,073	20,073
STA	DOC	22	71,750	15,170	23,718	55,500			13,900		183,085	48,964	41,727		453,814	20,628	18,731
STA	MAST	18.4	11,725			17,300			4,665		87,074	6,900	75,386	4,250	207,300	11,266	6,938
Division III Totals		1449.6	\$3,134,332	\$324,835	\$1,094,660	\$4,256,696	\$39,160	\$0	\$1,081,111	\$151,912	\$3,554,272	\$6,699,533	\$1,785,424	\$82,200	\$22,204,135	\$15,317	\$14,029
Division III Totals (excluding students in self-funded programs) (f)		1436.5	\$3,134,332	\$324,835	\$1,094,660	\$4,239,396	\$39,160	\$0	\$1,081,111	\$151,912	\$3,554,272	\$6,699,533	\$1,785,424	\$82,200	\$22,186,835	\$15,445	\$14,145

Note: Rows and columns may not total accurately because of rounding.

(a) Doc=Doctoral Students; MAST=Doctoral Stream Master's Students; PMAS=Professional Master's Students; Special students are included only when they received funding.

(b) Based on November 1, 1998 FTE count.

(c) There was a total of \$15,802,437 in TA payments made from September, 1998-August, 1999 (source: HRIS). These tables do not include \$1,134,074 in TA payments that were made to undergraduates and to previous graduate students who were not registered in 1998-1999. \$1,687,861 in TA payments were made to recipients who were not students or which could not be matched to students because of incomplete data from HRIS.

(d) There was a total of \$19,728,722 in RA payments made from September, 1998-August, 1999 (source: HRIS). \$14,828,446 in RA payments were matched to registered graduate students and are shown in these tables. These data were augmented with data that were obtained from Faculty of Medicine department chairs regarding payments that are made through hospitals to graduate students.

(e) There was a total of \$154,032 in OSAP payments to graduate students that could not be matched to graduate students registered in 1998-99.

(f) Excludes 16 FTE MMF Students and 1.8 FTE M. Eng. Telecommunications students.

TABLE 1E
Graduate Student Funding
1998-99
Division IV – Life Sciences

Dept	Program (a)	FTE Enrollment (b)	U of T Open Fellowships	Connaught	OGS	NSERC	MRC	SSHRC	Other	OSOTF	Departmental TA Funding	TA Funding From Outside Departments	TA Funding (c)	RA Funding (d)	OSAP (e)	UTAPS	Total Funding	Average Funding Per FTE Student (Excluding OSAP and UTAPS)	Average Funding Per FTE Student
ANA	DOC	8	14,600		11,859		47,668		26,003		35,792		35,792				135,922	16,990	16,990
ANA	MAST	6	21,600		11,859				19,502		6,789		6,789	3,040			97,590	16,265	16,265
BCH	DOC	46	95,535	15,170	31,624		243,633			10,742	58,557		58,557	294,139	17,917		822,917	17,890	17,500
BCH	MAST	37	61,200				17,524			19,226	29,497		29,497	416,253	5,294	800	653,594	17,665	17,500
BOT	DOC	32	91,436	15,170	47,436				2,914		151,530		151,530	157,635	1,914		529,801	16,556	16,496
BOT	MAST	28	53,219		11,859				15,859	5,631	121,520		121,520	124,961			402,348	14,370	14,370
CHL	DOC	128	354,950	4,000	43,483			83,100	344,250	1,999	20,000	51,952	51,952	171,305	111,325	1,550	1,205,214	9,416	8,534
CHL	MAST	137	228,200		23,718				83,203	36,203		52,804	52,804	109,799	139,121	5,100	678,148	4,950	3,897
CHL	PMAS	150	189,134						44,000	11,648		662	662		223,777	36,884	506,105	3,374	1,636
DEN	DOC	18.9	7,400	30,340	23,718		9,915		19,863				0	149,502	52,665	0	293,403	15,524	12,737
DEN	MAST	16.8	67,000		11,859				3,110	800	1,529		1,529	168,855	128,246	13,644	394,243	23,467	15,021
DEN	PMAS	27	6,000										0	5,000			11,800	437	437
FOR	DOC	29	49,600	15,170	23,718				110,908		60,363		60,363	45,213	64,230	150	445,584	15,365	13,145
FOR	MAST	26	83,957		19,765				91811	564	18241.86		18,242	154,182	142,221	250	530,092	20,388	14,908
FOR	PMAS	31	34,000		79,06				28347		1931.4		1,931	6250			78,434	2,530	2,530
IMM	DOC	34	68,749	4,000	35,577		257,543		174,857	32,484	22,980		22,980	170,805	10,552	3,200	627,242	18,448	18,044
IMM	MAST	22	98,485						113,143	11,884	1,683		1,683		19,443		415,443	18,884	18,000
LMP	DOC	54	88,000	19,240	97,201		86,249		12,000	12,000		14,157	14,157	586,010	15,651	1,250	947,808	17,552	17,262
LMP	MAST	68	157,500	4,000	59,295		30,842		9,581	33,050		14,886	14,886	861,732	36,055	1,250	1,208,191	17,768	17,219
LMP	PMAS	11										1,104	1,104		67,167	5,892	74,163	6,742	100
MBP	DOC	62	178,000		117,778		239,675		52,800	103,352		25,393	25,393	405,295	2,775		1,144,168	18,454	18,410
MBP	MAST	93	66,000		59,295		8,812		40,955	113,905		19,547	19,547	1,147,633	33,809	750	1,728,106	18,582	18,210
MMG	DOC	63	222,841	15,170	47,436		358,579		66,753	7,048	92,506		92,506	252,367	43,367	4,450	1,191,817	18,759	18,000
MMG	MAST	63	88,511		47,436				59,196		10,817		10,817	808,540	39,550	0	1,173,550	18,628	18,000
MSC	DOC	148	92,216	30,340	74,295		438,388	24,930	786,000	14,700	6,000	36,507	42,507	1,057,031	47,598		2,644,505	17,868	17,547
MSC	MAST	105	207,082		30,000				16,019	16,019		10,715	10,715	1,546,099	17,876	750	1,877,022	17,876	17,402
MSC	PMAS	16	36,000						8,000	8,000			0		63,804	6,100	113,904	7,119	2,750
MSC	SPECIAL	0.3											0	17,785			17,785		
NUR	DOC	25	94,000	30,340	11,859			16,620	10,800	15,000	41,966		41,966	50,394			270,979	10,839	10,839
NUR	MAST	19.4	28,000		11,859				3,555		23,544		23,544		13,875		80,833	4,167	3,451
NUR	PMAS	86.3	2,000						22,298		7,146		7,146		50,732	14,800	96,976	1,124	364
NFS	DOC	22	29,600		23,718				144,522	2,500	12,964		12,964	79,094	37,564	250	292,398	13,291	13,131
NFS	MAST	36	56,681		35,577				215,342	5,000	9,099		9,099	114,634	14,509		510,547	14,182	13,131
PCL	DOC	52	73,100	30,340	59,295		105,879		18,000	16,453	15,708		15,708	485,265	49,817		872,509	16,779	16,500
PCL	MAST	61	112,820		62,436				13,555	1,524	11,331		11,331	629,134	49,817	2,700	937,017	15,361	14,500
PHM	DOC	25	43,000		83,013		21,445				50,325		50,325	108,817	27,405		333,805	13,352	12,256
PHM	MAST	32.6	54,000		11,859				10,800	4,742	60,495		60,495	158,054	21,010	2,500	323,459	9,922	9,201
PHM	SPECIAL	0.3											0	14,000			14,000	46,667	
PSL	DOC	43	79,800	7,700	7,906		126,754		208,667	31,503	32,834	33,288	66,122	137,136	82,578	2,600	806,466	18,755	16,774
PSL	MAST	52	124,175		35,577				476,722	39,024	16,915	17,614	34,529	66,787	65,964	3,400	918,978	17,673	16,339
PSY	DOC	74	96,382	49,580	117,778		58,390	49,860	158,796	2,040	476,219		476,219	228,615	17,596		1,401,056	18,933	18,695
PSY	MAST	14	10,070		11,859				25,975		94,138		94,138	44,181	6,046		330,669	23,619	23,187
REH	MAST	19	24,200		38,718				23,316	1,136	36,600		36,600		8,378	250	149,898	7,435	7,435
SLP	DOC	5	21,600	15,170					35,800				0				72,570	14,514	14,514
SLP	MAST	3	17,900		11,859				5,000				0				52,059	17,353	17,353
SLP	PMAS	40	46,979		23,718				2,000				0		110,729	15,674	199,100	4,978	1,817
ZOO	DOC	58	153,162		23,718				21,000	3,653	264,018		264,018	246,687	54,306		822,144	14,175	13,239
ZOO	MAST	73	139,170		47,436				21,990	5,000	320,002		320,002	356,510	94,314	12,650	1,100,972	15,082	13,617
ZOO	SPECIAL	1									4,281		4,281		9,350		13,631	4,281	
Division IV Totals		2201.6	\$3,867,854	\$285,730	\$1,455,302	\$1,724,258	\$2,051,296	\$174,510	\$3,523,393	\$566,830	\$2,117,321	\$278,629	\$2,395,950	\$11,378,538	\$1,979,711	\$135,594	\$29,538,966	\$13,417	\$12,456

Note: Rows and columns may not total accurately because of rounding.

(a) Doc=Doctoral Students; MAST=Doctoral Stream Master's Students; PMAS=Professional Master's Students; Special students are included only when they received funding.

(b) Based on November 1, 1998 FTE count.

(c) There was a total of \$15,802,437 in TA payments made from September, 1998-August, 1999 (source: HRIIS). These tables do not include \$1,134,074 in TA payments that were made to undergraduates and to previous graduate students who were not registered in 1998-1999. \$1,687,861 in TA payments were made to recipients who were not students or which could not be matched to students because of incomplete data from HRIIS.

(d) There was a total of \$19,728,722 in RA payments made from September, 1998-August, 1999 (source: HRIIS). \$14,828,446 in RA payments were matched to registered graduate students and are shown in these tables. These data were augmented with data that were obtained from Faculty of Medicine department chairs regarding payments that are made through hospitals to graduate students.

(e) There was a total of \$154,032 in OSAP payments to graduate students that could not be matched to graduate students registered in 1998-99.

TABLE 1F

1998-1999 Average Funding of U of T Doctoral Stream Graduate Students by SGS Division

	Total # FTE Doctoral Stream Master's Students	Total # FTE Ph.D. students	Total Doctoral Stream Master's Funding	Total Ph.D. Student Funding	Average Funding per FTE Doctoral Stream Student (a)	Average Funding per Master's Student (a)	Average Funding per Ph.D. Student (a)
Division I	370.3	872.6	1,527,259	9,716,667	9,047	4,124	11,135
Division II (b)	302	493.6	1,722,575	7,006,004	11,584	5,704	14,194
Division III (c)	614.7	692.8	9,087,996	11,095,027	15,436	14,784	16,015
Division IV	911.8	926.9	12,628,701	14,415,241	14,631	13,850	15,552
Total	2198.8	2985.9	24,966,530	42,232,939	12,790	11,355	14,144

(a) Does not include OSAP and UTAPS

(b) Because OISE funding data could not be broken down by program, the data shown in this table do not include OISE data.

(c) Includes Mathematical Finance students

TABLE 2

Frequency Distribution of Number of All PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	PhD Student Count				% of Program Stage Group			
	Program Stage			Total	Program Stage			Total
	Up to and Including 4	Post-4	Unknown		Up to and Including 4	Post-4	Unknown	
No Amount Awarded	97	280	0	377	5.9%	36.8%	0.0%	15.3%
Less Than \$1,000	0	8	8	16	0.0%	1.1%	13.6%	0.7%
\$1,000 to \$4,999	83	102	18	203	5.1%	13.4%	30.5%	8.2%
\$5,000 to \$8,999	143	106	12	261	8.7%	13.9%	20.3%	10.6%
\$9,000 to \$12,999	229	94	3	326	14.0%	12.4%	5.1%	13.2%
\$13,000 to \$16,999	326	68	3	397	19.9%	8.9%	5.1%	16.1%
\$17,000 to \$20,999	279	59	10	348	17.0%	7.8%	16.9%	14.1%
\$21,000 to \$24,999	234	27	3	264	14.3%	3.5%	5.1%	10.7%
\$25,000 to \$29,999	171	10	2	183	10.4%	1.3%	3.4%	7.4%
\$30,000 to \$39,999	68	5	0	73	4.1%	0.7%	0.0%	3.0%
\$40,000 to \$49,999	9	2	0	11	0.5%	0.3%	0.0%	0.4%
\$50,000 and up	2	0	0	2	0.1%	0.0%	0.0%	0.1%
Total	1,641	761	59	2,461	100.0%	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
All PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	Total Dollars Awarded				% of Program Stage Group			
	Program Stage			Total	Program Stage			Total
	Up to and Including 4	Post-4	Unknown		Up to and Including 4	Post-4	Unknown	
No Amount Awarded	0	0	0	0	0.0%	0.0%	0.0%	0.0%
Less Than \$1,000	0	4,929	3,946	8,875	0.0%	0.1%	0.7%	0.0%
\$1,000 to \$4,999	299,067	352,035	55,200	706,302	1.1%	6.5%	10.4%	2.2%
\$5,000 to \$8,999	986,873	765,828	83,017	1,835,718	3.7%	14.1%	15.7%	5.6%
\$9,000 to \$12,999	2,558,572	1,050,979	35,701	3,645,252	9.5%	19.3%	6.7%	11.1%
\$13,000 to \$16,999	4,988,772	1,030,441	48,240	6,067,453	18.6%	18.9%	9.1%	18.5%
\$17,000 to \$20,999	5,321,075	1,111,002	179,253	6,611,330	19.8%	20.4%	33.8%	20.1%
\$21,000 to \$24,999	5,352,265	619,771	70,582	6,042,618	19.9%	11.4%	13.3%	18.4%
\$25,000 to \$29,999	4,597,250	262,187	53,911	4,913,348	17.1%	4.8%	10.2%	15.0%
\$30,000 to \$39,999	2,260,476	168,322	0	2,428,798	8.4%	3.1%	0.0%	7.4%
\$40,000 to \$49,999	396,494	82,772	0	479,266	1.5%	1.5%	0.0%	1.5%
\$50,000 and up	106,545	0	0	106,545	0.4%	0.0%	0.0%	0.3%
Total	26,867,389	5,448,266	529,850	32,845,505	100.0%	100.0%	100.0%	100.0%

Average Dollars Awarded	16,373	7,159	8,981	13,346
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Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

TABLE 2A
Frequency Distribution of Number of Male PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	Male PhD Student Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	64	156	220	6.6%	36.2%	15.7%
Less Than \$1,000	0	5	5	0.0%	1.2%	0.4%
\$1,000 to \$4,999	47	57	104	4.9%	13.2%	7.4%
\$5,000 to \$8,999	74	54	128	7.6%	12.5%	9.1%
\$9,000 to \$12,999	121	48	169	12.5%	11.1%	12.1%
\$13,000 to \$16,999	187	42	229	19.3%	9.7%	16.4%
\$17,000 to \$20,999	162	39	201	16.7%	9.0%	14.4%
\$21,000 to \$24,999	143	21	164	14.8%	4.9%	11.7%
\$25,000 to \$29,999	114	3	117	11.8%	0.7%	8.4%
\$30,000 to \$39,999	50	4	54	5.2%	0.9%	3.9%
\$40,000 to \$49,999	6	2	8	0.6%	0.5%	0.6%
\$50,000 and up	1	0	1	0.1%	0.0%	0.1%
Total	969	431	1,400	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
Male PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	0	2,767	2,767	0.0%	0.1%	0.0%
\$1,000 to \$4,999	168,307	197,262	365,569	1.0%	6.1%	1.9%
\$5,000 to \$8,999	501,472	378,250	879,722	3.1%	11.6%	4.5%
\$9,000 to \$12,999	1,351,776	540,881	1,892,657	8.3%	16.6%	9.7%
\$13,000 to \$16,999	2,856,987	635,030	3,492,017	17.6%	19.5%	17.9%
\$17,000 to \$20,999	3,089,149	728,819	3,817,968	19.0%	22.4%	19.6%
\$21,000 to \$24,999	3,266,781	475,752	3,742,533	20.1%	14.6%	19.2%
\$25,000 to \$29,999	3,060,573	78,504	3,139,077	18.8%	2.4%	16.1%
\$30,000 to \$39,999	1,664,260	131,814	1,796,074	10.2%	4.1%	9.2%
\$40,000 to \$49,999	264,875	82,772	347,647	1.6%	2.5%	1.8%
\$50,000 and up	50,247	0	50,247	0.3%	0.0%	0.3%
Total	16,274,427	3,251,851	19,526,278	100.0%	100.0%	100.0%

Average Dollars Awarded	16,795	7,545	13,947
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Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

TABLE 2B
Frequency Distribution of Number of Female PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	Female PhD Student Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	33	124	157	4.9%	37.6%	15.7%
Less Than \$1,000	0	3	3	0.0%	0.9%	0.3%
\$1,000 to \$4,999	36	45	81	5.4%	13.6%	8.1%
\$5,000 to \$8,999	69	52	121	10.3%	15.8%	12.1%
\$9,000 to \$12,999	108	46	154	16.1%	13.9%	15.4%
\$13,000 to \$16,999	139	26	165	20.7%	7.9%	16.5%
\$17,000 to \$20,999	117	20	137	17.4%	6.1%	13.7%
\$21,000 to \$24,999	91	6	97	13.5%	1.8%	9.7%
\$25,000 to \$29,999	57	7	64	8.5%	2.1%	6.4%
\$30,000 to \$39,999	18	1	19	2.7%	0.3%	1.9%
\$40,000 to \$49,999	3	0	3	0.4%	0.0%	0.3%
\$50,000 and up	1	0	1	0.1%	0.0%	0.1%
Total	672	330	1,002	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
Female PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding OISE/UT and Faculty of Medicine Departments

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	0	2,162	2,162	0.0%	0.1%	0.0%
\$1,000 to \$4,999	130,760	154,773	285,533	1.2%	7.0%	2.2%
\$5,000 to \$8,999	485,401	387,578	872,979	4.6%	17.6%	6.8%
\$9,000 to \$12,999	1,206,796	510,098	1,716,894	11.4%	23.2%	13.4%
\$13,000 to \$16,999	2,131,785	395,411	2,527,196	20.1%	18.0%	19.8%
\$17,000 to \$20,999	2,231,926	382,183	2,614,109	21.1%	17.4%	20.4%
\$21,000 to \$24,999	2,085,484	144,019	2,229,503	19.7%	6.6%	17.4%
\$25,000 to \$29,999	1,536,677	183,683	1,720,360	14.5%	8.4%	13.5%
\$30,000 to \$39,999	596,216	36,508	632,724	5.6%	1.7%	4.9%
\$40,000 to \$49,999	131,619	0	131,619	1.2%	0.0%	1.0%
\$50,000 and up	56,298	0	56,298	0.5%	0.0%	0.4%
Total	10,592,962	2,196,415	12,789,377	100.0%	100.0%	100.0%

Average Dollars Awarded	15,763	6,656	12,764
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Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

TABLE 3A
AWARDS HELD BY PhD STUDENTS BY PROGRAM STAGE
Awards = All Terms; Student Registrations = Fall/Winter Only, excluding OISE/UT

ALL PROGRAM STAGES COMBINED																
Award Type (Sorted by no. students receiving support)	Students Supported by Each Award Type (Note 1)	Reduction of Overlapping Award Combinations	Students by Award Type When Counted Once	WITH TWO OR MORE OTHER AWARDS												
				Fellowship Only	And TA	And RA	And External	And Endowed	And D.F.W.	And Bursary	And Connaught	And Other	WITH TA AND RA	WITH TA AND EXTERNAL	REMAINING COMBINATIONS	No Support
Fellowship	1,454	0	1,454	408	319	78	53	33	51	10	7	0	245	57	193	---
TA	1,443	931	512	---	170	122	155	11	0	15	13	0	---	---	26	---
RA	928	623	305	---	---	125	48	6	0	2	1	1	---	113	9	---
External	726	550	176	---	---	---	153	14	1	2	6	0	---	---	0	---
Endowed	205	153	52	---	---	---	---	31	1	3	1	0	8	8	0	---
D.F.W.	123	112	11	---	---	---	---	---	9	0	0	1	1	0	0	---
Bursary	103	49	54	---	---	---	---	---	---	38	0	1	13	2	0	---
Connaught	96	47	49	---	---	---	---	---	---	---	33	0	9	7	0	---
Other Internal Awards	12	9	3	---	---	---	---	---	---	---	---	1	2	0	0	---
Students Receiving Support	5,090	2,474	2,616	---	---	---	---	---	---	---	---	---	---	---	---	---
No Support	560	0	560	---	---	---	---	---	---	---	---	---	---	---	---	---
Total All Program Stages Combined	5,650	2,474	3,176	---	---	---	---	---	---	---	---	---	---	---	---	560

Note 1: The total number of awards supporting PhD students is greater than the number of such students because 1,648 of 3,176 received support from two or more awards as follows:

Students	No. Awards
955	2 awards
572	3 awards
110	4 awards
10	5 awards
1	6 awards
1,648	2,474

TABLE 3B
AWARDS HELD BY PhD STUDENTS BY PROGRAM STAGE
Awards = All Terms; Student Registrations = Fall/Winter Only, excluding OISE/UT

PROGRAM STAGE OF UP TO AND INCLUDING YEAR 4																
Award Type	Students Supported by Each Award Type (Note 1)	Reduction of Overlapping Award Combinations	Students by Award Type When Counted Once	WITH TWO OR MORE OTHER AWARDS											No Support	
				Fellowship Only	And TA	And RA	And External	And Endowed	And D.F.W.	And Bursary	And Connaught	And Other	WITH TA AND RA	WITH TA AND EXTERNAL		REMAINING COMBINATIONS
Fellowship	1,256	0	1,256	349	264	67	44	27	50	6	7	0	219	53	170	---
TA	1,088	806	282	---	42	62	139	4	4	13	1	1	---	---	22	---
RA	705	492	213	---	---	54	42	4	1	6	1	1	---	103	9	---
External	626	495	131	---	---	---	111	12	1	1	6	0	---	---	0	---
Endowed	155	120	35	---	---	---	---	19	1	1	1	1	5	8	0	---
D.F.W.	122	111	11	---	---	---	---	---	9	1	1	1	1	0	0	---
Bursary	17	14	3	---	---	---	---	---	---	1	33	1	9	7	0	---
Connaught	96	47	49	---	---	---	---	---	---	---	---	1	2	0	0	---
Other Internal Awards	10	7	3	---	---	---	---	---	---	---	---	---	---	---	---	---
Students Receiving Support	4,075	2,092	1,983	---	---	---	---	---	---	---	---	---	---	---	---	---
No Support	212	0	212	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Program Stage < or = 4 Years	4,287	2,092	2,195	---	---	---	---	---	---	---	---	---	---	---	---	212

Note 1: The total number of awards supporting PhD students up to and including Year 4 is greater than the number of such students because 1,364 of 2,195 received support from two or more awards as follows:

Students	No. Awards
754	2 awards
503	3 awards
97	4 awards
9	5 awards
1	6 awards
1,364	2,092

TABLE 3C
AWARDS HELD BY PHD STUDENTS BY PROGRAM STAGE
Awards = All Terms; Student Registrations = Fall/Winter Only
Excluding OISE/UT

Award Type	POST-4 PROGRAM STAGE												
	Students Supported by Each Award Type (Note 1)		Reduction of Overlapping Award Combinations		Students by Award Type When Counted Once		WITH TWO OR MORE OTHER AWARDS						
	Fellowship Only	And TA	And RA	And External	And Endowed	And D.F.W.	And Bursary	And Connaught	And Other	WITH TA AND RA	WITH TA AND EXTERNAL	REMAINING COMBINATIONS	No Support
Fellowship	52	55	10	9	5	1	4	0	0	24	4	23	---
TA	---	117	58	15	7	0	15	0	0	---	---	4	---
RA	---	---	61	5	2	0	2	0	1	---	10	0	---
External	---	---	---	16	2	0	1	0	0	---	---	0	---
Endowed	---	---	---	---	9	0	2	0	0	3	0	0	---
D.F.W.	---	---	---	---	---	0	0	0	0	0	0	0	---
Bursary	---	---	---	---	---	---	31	0	1	12	1	0	---
Connaught	---	---	---	---	---	---	---	0	0	0	0	0	---
Other Internal Awards	---	---	---	---	---	---	---	---	0	0	0	0	---
Students Receiving Support	---	---	---	---	---	---	---	---	---	---	---	---	---
No Support	---	---	---	---	---	---	---	---	---	---	---	---	348
Total Program Stage Post-4 Years	1,282	372	372	910									

Note 1: The total number of awards supporting PhD Post-4th Year students is greater than the number of such students because 276 of 910 received support from two or more awards as follows:

Students	No. Awards
195	2 awards
67	3 awards
13	4 awards
1	5 awards
0	6 awards
276	372

TABLE 4
OISE/UT
Frequency Distribution of Number of All PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	PhD Student Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	171	115	286	44.6%	63.5%	50.7%
Less Than \$1,000	7	5	12	1.8%	2.8%	2.1%
\$1,000 to \$4,999	25	20	45	6.5%	11.0%	8.0%
\$5,000 to \$8,999	72	16	88	18.8%	8.8%	15.6%
\$9,000 to \$12,999	53	17	70	13.8%	9.4%	12.4%
\$13,000 to \$16,999	37	4	41	9.7%	2.2%	7.3%
\$17,000 to \$20,999	14	2	16	3.7%	1.1%	2.8%
\$21,000 to \$24,999	2	2	4	0.5%	1.1%	0.7%
\$25,000 to \$29,999	2	0	2	0.5%	0.0%	0.4%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	383	181	564	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
All PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	2,949	2,876	5,825	0.1%	0.5%	0.2%
\$1,000 to \$4,999	76,961	65,683	142,644	3.5%	12.4%	5.2%
\$5,000 to \$8,999	579,124	123,560	702,684	26.2%	23.3%	25.6%
\$9,000 to \$12,999	586,783	194,691	781,474	26.5%	36.7%	28.5%
\$13,000 to \$16,999	604,350	64,526	668,876	27.3%	12.2%	24.4%
\$17,000 to \$20,999	267,463	36,089	303,552	12.1%	6.8%	11.1%
\$21,000 to \$24,999	43,781	43,349	87,130	2.0%	8.2%	3.2%
\$25,000 to \$29,999	53,057	0	53,057	2.4%	0.0%	1.9%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	2,214,468	530,774	2,745,242	100.0%	100.0%	100.0%

Average Dollars Awarded	5,782	2,932	4,867
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365	177	542	Number PhD Students Receiving Less Than \$17,000
6,205,000	3,009,000	9,214,000	Total Required to bring them to \$17,000 Each
1,850,167	451,336	2,301,503	Current Level of Funding Provided to them
4,354,833	2,557,664	6,912,497	Size of Gap, OISE/UT

Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed,
and Other Internal Awards

TABLE 4A
OISE/UT – Males only
Frequency Distribution of Number of Male PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	Male PhD Student Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	38	25	63	43.2%	56.8%	47.7%
Less Than \$1,000	1	1	2	1.1%	2.3%	1.5%
\$1,000 to \$4,999	6	8	14	6.8%	18.2%	10.6%
\$5,000 to \$8,999	15	3	18	17.0%	6.8%	13.6%
\$9,000 to \$12,999	18	5	23	20.5%	11.4%	17.4%
\$13,000 to \$16,999	5	0	5	5.7%	0.0%	3.8%
\$17,000 to \$20,999	3	1	4	3.4%	2.3%	3.0%
\$21,000 to \$24,999	0	1	1	0.0%	2.3%	0.8%
\$25,000 to \$29,999	2	0	2	2.3%	0.0%	1.5%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	88	44	132	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
Male PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	200	500	700	0.0%	0.3%	0.1%
\$1,000 to \$4,999	18,000	27,992	45,992	3.4%	18.5%	6.7%
\$5,000 to \$8,999	124,350	22,940	147,290	23.1%	15.1%	21.4%
\$9,000 to \$12,999	202,396	59,990	262,386	37.7%	39.6%	38.1%
\$13,000 to \$16,999	81,747	0	81,747	15.2%	0.0%	11.9%
\$17,000 to \$20,999	57,443	18,859	76,302	10.7%	12.4%	11.1%
\$21,000 to \$24,999	0	21,229	21,229	0.0%	14.0%	3.1%
\$25,000 to \$29,999	53,057	0	53,057	9.9%	0.0%	7.7%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	537,193	151,510	688,703	100.0%	100.0%	100.0%

Average Dollars Awarded	6,104	3,443	5,217
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83	42	125	Number Male PhD Students Receiving Less Than \$17,000
1,411,000	714,000	2,125,000	Total Required to bring them to \$17,000 Each
426,693	111,422	538,115	Current Level of Funding Provided to them
984,307	602,578	1,586,885	Size of Gap, OISE/UT

Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

TABLE 4B
OISE/UT – Females only
Frequency Distribution of Number of Female PhD Students by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	Female PhD Student Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	133	90	223	45.1%	65.7%	51.6%
Less Than \$1,000	6	4	10	2.0%	2.9%	2.3%
\$1,000 to \$4,999	19	12	31	6.4%	8.8%	7.2%
\$5,000 to \$8,999	57	13	70	19.3%	9.5%	16.2%
\$9,000 to \$12,999	35	12	47	11.9%	8.8%	10.9%
\$13,000 to \$16,999	32	4	36	10.8%	2.9%	8.3%
\$17,000 to \$20,999	11	1	12	3.7%	0.7%	2.8%
\$21,000 to \$24,999	2	1	3	0.7%	0.7%	0.7%
\$25,000 to \$29,999	0	0	0	0.0%	0.0%	0.0%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	295	137	432	100.0%	100.0%	100.0%

Frequency Distribution of Total Dollars Awarded by Value of Total Awards
Female PhD Students [Awards = All Terms; Student Registrations = Fall/Winter Only]
OISE/UT Excluding EDD Students

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Up to and Including 4	Post-4		Up to and Including 4	Post-4	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	2,749	2,376	5,125	0.2%	0.6%	0.2%
\$1,000 to \$4,999	58,961	37,691	96,652	3.5%	9.9%	4.7%
\$5,000 to \$8,999	454,774	100,620	555,394	27.1%	26.5%	27.0%
\$9,000 to \$12,999	384,387	134,701	519,088	22.9%	35.5%	25.2%
\$13,000 to \$16,999	522,603	64,526	587,129	31.2%	17.0%	28.5%
\$17,000 to \$20,999	210,020	17,230	227,250	12.5%	4.5%	11.1%
\$21,000 to \$24,999	43,781	22,120	65,901	2.6%	5.8%	3.2%
\$25,000 to \$29,999	0	0	0	0.0%	0.0%	0.0%
\$30,000 to \$39,999	0	0	0	0.0%	0.0%	0.0%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total	1,677,275	379,264	2,056,539	100.0%	100.0%	100.0%

Average Dollars Awarded	5,686	2,768	4,761
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282	135	417	Number Female PhD Students Receiving Less Than \$17,000
4,794,000	2,295,000	7,089,000	Total Required to bring them to \$17,000 Each
1,423,474	339,914	1,763,388	Current Level of Funding Provided to them
3,370,526	1,955,086	5,325,612	Size of Gap, OISE/UT

Award Types = TA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

Table 5
AAU Survey of Graduate Assistance 1997-98

AAU Institution Code	Graduate Assistant Compensation			Cost to Institution		
	Average Cash Salary	Tuition and Fees Paid	Average Grad Asst. Compensation	Average Cash Salary	Lost Tuition and Fees	Cost to Institution
AD	13,130	706	12,425	13,130	3,298	16,428
AM	9,672	0	9,672	9,672	25,788	35,460
BZ	12,654	584	12,070	12,654	5,875	18,529
CE	11,620	478	11,142	11,620	3,410	15,030
DM	10,733	1,145	9,588	10,733	6,235	16,968
DX	10,735	505	10,230	10,735	2,282	13,017
EP	12,870	1,895	10,975	12,870	3,282	16,152
FJ	15,780	2,411	13,369	15,780	3,413	19,193
GA	12,574	0	12,574	12,574	9,785	22,359
GS	11,498	886	10,612	11,498	2,982	14,480
IC	15,804	2,238	13,566	15,804	3,762	19,566
IF	10,699	288	10,411	10,699	2,328	13,027
JC	11,741	569	11,172	11,741	5,976	17,717
JP	13,868	43	13,825	13,868	13,020	26,888
JP	14,132	43	14,089	14,132	26,208	40,340
KI	11,851	0	11,851	11,851	6,224	18,075
LL	15,744	2,330	13,414	15,744	3,586	19,330
MU	15,766	2,154	13,612	15,766	3,206	18,972
NB	16,717	5,630	11,087	16,717	0	16,717
OJ	13,039	0	13,039	13,039	6,048	19,087
PH	16,040	2,138	13,902	16,040	3,136	19,176
QU	14,261	2,472	11,789	14,261	0	14,261
RG	12,835	2,069	10,766	12,835	3,829	16,664
SO	13,031	221	12,810	13,031	11,568	24,599
TL	12,715	1,044	11,671	12,715	3,343	16,058
UR	12,440	485	11,955	12,440	5,794	18,234
VW	13,778	38	13,740	13,778	5,705	19,483
WY	16,502	3,890	12,612	16,502	118	16,620
XN	13,076	497	12,579	13,076	2,242	15,318
YH	16,673	2,209	14,464	16,673	3,198	19,871
Average	\$13,399	\$1,232	\$12,167	\$13,399	\$5,788	\$19,187

Expressed in Canadian dollars using PPP conversion rate of 1.20

Institutions included in survey:

Arizona
Berkeley
Colorado
Cornell (Endowed)
Cornell (Statutory)
Davis
Florida
Illinois
Indiana
Iowa
Iowa State
Irvine
Kansas
Los Angeles
Maryland
Michigan
Michigan St
Minnesota
Missouri
Nebraska
Ohio State
Oregon
Penn State
Pittsburgh
Purdue
San Diego
Santa Barbara
Texas
Tulane
Virginia
Washington
Wisconsin

TABLE 6
DOCTORAL TIME TO DEGREE
1996-1998

(Based on 3-year rolling average; lapses and on-leave terms are not included; mean and median expressed in years)

Humanities					
DIV	DEPT	STATUS	COUNT	MEAN	MEDIAN
1	Classics	TOTAL	8	7.17	6.67
1	Comparative Literature	TOTAL	7	5.14	4.67
1	Drama	TOTAL	13	6.52	6.67
1	East Asian Studies	TOTAL	10	6.37	6.34
1	English	TOTAL	55	6.3	6.33
1	History of Art	TOTAL	6	6.61	7.34
1	French	TOTAL	18	5.65	5.67
1	German	TOTAL	3	5.11	4.67
1	History	TOTAL	43	6.41	6
1	IHPST	TOTAL	3	5.89	5
1	Italian	TOTAL	8	5.21	4.84
1	Linguistics	TOTAL	4	5.83	6
1	Medieval Studies	TOTAL	15	6.07	6.67
1	Music	TOTAL	13	5.03	4.67
1	Near and Middle Eastern Civ.	TOTAL	6	7.34	7.84
1	Philosophy	TOTAL	27	5.63	5.67
1	Religion	TOTAL	13	6	6
1	South Asian Studies	TOTAL	2	7.5	7.5
1	Slavic Studies	TOTAL	5	5.94	6
1	Spanish and Portuguese	TOTAL	9	5.52	5.67
Division I Totals			268	6.1	Not Available

Social Sciences			Ft semester=PT Semester		
DIV	DEPT	STATUS	COUNT	MEAN	MEDIAN
2	Adult Ed.	TOTAL	63	4.78	4.67
2	Anthropology	TOTAL	17	5.92	6
2	Criminology	TOTAL	3	5.45	5.67
2	Curriculum, Teaching and Learning	TOTAL	80	4.86	4.67
2	Economics	TOTAL	21	6.06	6
2	Information Science	TOTAL	6	6.39	5.84
2	Geography	TOTAL	16	5.5	5.5
2	Human Development and Psych	TOTAL	41	4.71	5
2	Industrial Relations	TOTAL	1	3.33	3.33
2	LAW	TOTAL	5	3.6	3.67
2	Management	TOTAL	17	5.55	5
2	Political Science	TOTAL	36	6.24	6.33
2	Sociology and Equity Studies	TOTAL	21	5.18	5.67
2	Sociology	TOTAL	12	6.39	6.17
2	Social Work	TOTAL	14	5.67	5.67
2	Theory and Policy Stud in Ed.	TOTAL	68	4.21	4
Division II Totals			3240	5.3	Not Available

Physical Sciences			Ft semester=PT Semester		
DIV	DEPT	STATUS	COUNT	MEAN	MEDIAN
3	Aerospace Science	TOTAL	14	5.29	4.84
3	Astronomy	TOTAL	10	6.24	6.5
3	Chemical Eng.	TOTAL	34	4.22	4
3	Chemisty	TOTAL	40	4.73	4.67
3	Civil Eng.	TOTAL	21	5	4.67
3	Computer Science	TOTAL	32	5.67	5.67
3	Elec & Comp Eng.	TOTAL	54	4.83	4.84
3	Geology	TOTAL	13	5.15	5
3	Mathematics	TOTAL	20	4.88	5
3	Mech & Ind. Engineering	TOTAL	54	4.87	4.84
3	Metals & Materials Science	TOTAL	16	4.63	4.84
3	Physics	TOTAL	42	5.21	5
3	Staustics	TOTAL	8	5.25	5
Division III Totals			358	5	Not Available

TABLE 6 (continued)
DOCTORAL TIME TO DEGREE
1996-1998

(Based on 3-year rolling average; lapses and on-leave terms are not included; mean and median expressed in years)

Life Sciences					
DIV	DEPT	STATUS	COUNT	MEAN	MEDIAN
4	Anatomy & Cell Biology	TOTAL	7	4.38	4.67
4	Biochemistry	TOTAL	14	4.71	4.5
4	Botany	TOTAL	12	5.56	5.67
4	Community Health	TOTAL	35	5.43	5.67
4	Dentistry	TOTAL	9	4.78	5
4	Forestry	TOTAL	12	4.67	4.34
4	Immunology	TOTAL	11	4	4
4	Lab Med & Pathobiology	TOTAL	9	5.26	5.67
4	Medical Biophysics	TOTAL	27	4.89	5
4	Mol. & Medical Genetics	TOTAL	46	4.23	4.67
4	Medical Science	TOTAL	30	4.13	4.5
4	Nursing Science	TOTAL	1	4	4
4	Nutritional Sciences	TOTAL	5	5.4	4.67
4	Pharmacology	TOTAL	11	5.09	5
4	Pharmaceutical Sciences	TOTAL	8	4.71	4
4	Physiology	TOTAL	11	5.24	5.67
4	Psychology	TOTAL	20	5.49	5
4	Zoology	TOTAL	25	5.09	5
Division IV Totals			293	4.9	Not Available

AVERAGE (in years)				
DIV	FEMALE	COUNT	MALE	COUNT
1	6.082	129	6.16	139
2	5.41	249	5.26	172
3	5.31	42	5.01	316
4	4.94	127	4.8	166

MEDIAN		
DIV	FEMALE	MALE
1	6.085	5.67
2	5.67	5.17
3	5	4.84
4	5	4.67

TABLE 7A
Frequency Distribution of Number of PhD Students and Total Dollars Awarded by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding Faculty of Medicine Departments and EDD Students

	PhD Student Count				% of Program Stage Group			
	Program Stage			Total	Program Stage			Total
	Up to and Including 4	Post-4	Unknown		Up to and Including 4	Post-4	Unknown	
No Amount Awarded	268	395	0	663	13.2%	41.9%	0.0%	21.9%
Less Than \$1,000	7	13	8	28	0.3%	1.4%	13.6%	0.9%
\$1,000 to \$4,999	108	122	18	248	5.3%	13.0%	30.5%	8.2%
\$5,000 to \$8,999	215	122	12	349	10.6%	13.0%	20.3%	11.5%
\$9,000 to \$12,999	282	111	3	396	13.9%	11.8%	5.1%	13.1%
\$13,000 to \$16,999	363	72	3	438	17.9%	7.6%	5.1%	14.5%
\$17,000 to \$20,999	293	61	10	364	14.5%	6.5%	16.9%	12.0%
\$21,000 to \$24,999	236	29	3	268	11.7%	3.1%	5.1%	8.9%
\$25,000 to \$30,000	173	10	2	185	8.5%	1.1%	3.4%	6.1%
\$30,000 to \$39,999	68	5	0	73	3.4%	0.5%	0.0%	2.4%
\$40,000 to \$49,999	9	2	0	11	0.4%	0.2%	0.0%	0.4%
\$50,000 and up	2	0	0	2	0.1%	0.0%	0.0%	0.1%
Total Excluding Medicine	2,024	942	59	3,025	100.0%	100.0%	100.0%	100.0%

	Total Dollars Awarded				% of Program Stage Group			
	Program Stage			Total	Program Stage			Total
	Up to and Including 4	Post-4	Unknown		Up to and Including 4	Post-4	Unknown	
No Amount Awarded	0	0	0	0	0.0%	0.0%	0.0%	0.0%
Less Than \$1,000	2,949	7,805	3,946	14,700	0.0%	0.1%	0.7%	0.0%
\$1,000 to \$4,999	376,028	417,718	55,200	848,946	1.3%	7.0%	10.4%	2.4%
\$5,000 to \$8,999	1,565,997	889,388	83,017	2,538,402	5.4%	14.9%	15.7%	7.1%
\$9,000 to \$12,999	3,145,355	1,245,670	35,701	4,426,726	10.8%	20.8%	6.7%	12.4%
\$13,000 to \$16,999	5,593,122	1,094,967	48,240	6,736,329	19.2%	18.3%	9.1%	18.9%
\$17,000 to \$20,999	5,588,538	1,147,091	179,253	6,914,882	19.2%	19.2%	33.8%	19.4%
\$21,000 to \$24,999	5,396,046	663,120	70,582	6,129,748	18.6%	11.1%	13.3%	17.2%
\$25,000 to \$30,000	4,650,307	262,187	53,911	4,966,405	16.0%	4.4%	10.2%	14.0%
\$30,000 to \$39,999	2,260,476	168,322	0	2,428,798	7.8%	2.8%	0.0%	6.8%
\$40,000 to \$49,999	396,494	82,772	0	479,266	1.4%	1.4%	0.0%	1.3%
\$50,000 and up	106,545	0	0	106,545	0.4%	0.0%	0.0%	0.3%
Total Excluding Medicine	29,081,857	5,979,040	529,850	35,590,747	100.0%	100.0%	100.0%	100.0%

Average Dollars Awarded	14,369	6,347	8,981	11,766
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Analysis of The Amount of Funding Required To Bring PhD Students Up to \$17,000 of Support Each By Program Stage by Three Groupings [(1) Medicine, (2) OISE/UT, (3) Remaining Students] [Awards = All Terms; Student Registrations = Fall/Winter Only] Excluding EDD Students						
	PhD Students				Total	
	Program Stage					
	Up to and Including 4	Post-4	Unknown			
(1) Medicine (Note 5, 6, 7)	258	n/a	n/a	258	Number PhD Students Receiving Less Than \$17,000	
	4,386,000	n/a	n/a	4,386,000	Total Required to bring them to \$17,000 Each	
	3,172,517	n/a	n/a	3,172,517	Current Level of Funding Provided to them	
	1,213,483	n/a	n/a	1,213,483	Size of Gap, Medicine	
(2) OISE/UT	365	177	0	542	Number PhD Students Receiving Less Than \$17,000	
	6,205,000	3,009,000	0	9,214,000	Total Required to bring them to \$17,000 Each	
	1,850,167	451,336	0	2,301,503	Current Level of Funding Provided to them	
	4,354,833	2,557,664	0	6,912,497	Size of Gap, OISE/UT	
(3) Excluding OISE/UT and Medicine	878	658	44	1,580	Number PhD Students Receiving Less Than \$17,000	
	14,926,000	11,186,000	748,000	26,860,000	Total Required to bring them to \$17,000 Each	
	8,833,284	3,204,212	226,104	12,263,600	Current Level of Funding Provided to them	
	6,092,716	7,981,788	521,896	14,596,400	Size of Gap, Excluding OISE/UT and Medicine	
All Three Groups Combined	1,501	835	44	2,380	Number PhD Students Receiving Less Than \$17,000	
	25,517,000	14,195,000	748,000	40,460,000	Total Required to bring them to \$17,000 Each	
	13,855,968	3,655,548	226,104	17,737,620	Current Level of Funding Provided to them	
	11,661,032	10,539,452	521,896	22,722,380	Size of Gap, Total Combined	

Award Types = TA/GA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

The total of \$73.0 million, of which the \$35.6 million above is a subset, does not include the following:

- (1) \$ 1,134,074 in 1998-99 TA payments that were made to undergraduate and previous graduate students who were not registered in 1998-99.
- (2) \$ 1,153,606 in 1998-99 RA payments that were made to undergraduate and previous graduate students who were not registered in 1998-99.
- (3) \$10,000,164 in OSAP and UTAPS for non-OISE/UT graduate students.
- (4) \$ 3,465,628 in OSAP and UTAPS for OISE/UT graduate students.

For Medicine:

- (5) Frequency distribution of individual students unknown. Substituted "average" information supplied by the Faculty as a proxy.
- (6) If current level of funding exceeds that required to provide \$17,000 per student then size of gap set to zero.
- (7) No gender breakdown is available.

The program stage is unknown for 161 students, of which the 59 reported above is a subset, who received awards in Summer 1999 and were not registered in either Fall 1998 or Winter 1999.

Excludes 59 PhD students with gender unknown. [ie., Students received awards but no Fall or Winter registration indicated]

TABLE 7B
Frequency Distribution of Number of Full-Time Doctoral Stream Masters Students and Total Dollars
awarded by Value of Total Awards
[Awards = All Terms; Student Registrations = Fall/Winter Only]
Excluding Faculty of Medicine Departments

	FT Doc. Stream Masters Count			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Year 1	Year 2 and Up		Year 1	Year 2 and Up	
No Amount Awarded	256	147	403	25.2%	25.7%	25.4%
Less Than \$1,000	11	17	28	1.1%	3.0%	1.8%
\$1,000 to \$4,999	151	108	259	14.9%	18.8%	16.3%
\$5,000 to \$8,999	130	63	193	12.8%	11.0%	12.1%
\$9,000 to \$12,999	133	52	185	13.1%	9.1%	11.6%
\$13,000 to \$16,999	117	56	173	11.5%	9.8%	10.9%
\$17,000 to \$20,999	107	71	178	10.5%	12.4%	11.2%
\$21,000 to \$24,999	80	35	115	7.9%	6.1%	7.2%
\$25,000 to \$30,000	27	18	45	2.7%	3.1%	2.8%
\$30,000 to \$39,999	4	6	10	0.4%	1.0%	0.6%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total Excluding Medicine	1,016	573	1,589	100.0%	100.0%	100.0%

	Total Dollars Awarded			% of Program Stage Group		
	Program Stage		Total	Program Stage		Total
	Year 1	Year 2 and Up		Year 1	Year 2 and Up	
No Amount Awarded	0	0	0	0.0%	0.0%	0.0%
Less Than \$1,000	5,589	8,800	14,389	0.1%	0.2%	0.1%
\$1,000 to \$4,999	473,420	284,080	757,500	5.1%	5.7%	5.3%
\$5,000 to \$8,999	889,706	439,081	1,328,787	9.6%	8.9%	9.4%
\$9,000 to \$12,999	1,464,328	585,890	2,050,218	15.8%	11.8%	14.4%
\$13,000 to \$16,999	1,764,517	824,219	2,588,736	19.1%	16.6%	18.2%
\$17,000 to \$20,999	2,009,612	1,347,669	3,357,281	21.7%	27.2%	23.6%
\$21,000 to \$24,999	1,809,909	784,354	2,594,263	19.6%	15.8%	18.3%
\$25,000 to \$30,000	709,761	485,823	1,195,584	7.7%	9.8%	8.4%
\$30,000 to \$39,999	125,613	197,559	323,172	1.4%	4.0%	2.3%
\$40,000 to \$49,999	0	0	0	0.0%	0.0%	0.0%
\$50,000 and up	0	0	0	0.0%	0.0%	0.0%
Total Excluding Medicine	9,252,455	4,957,475	14,209,930	100.0%	100.0%	100.0%

Average Dollars Awarded	9,107	8,652	8,943
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Analysis of The Amount of Funding Required To Bring Full-Time Doctoral Stream Masters Students Up to \$17,000 of Support Each By Program Stage by Three Groupings [(1) Medicine, (2) OISE/UT, (3) Remaining Students] [Awards = All Terms; Student Registrations = Fall/Winter Only]				
(1) Medicine (Note 5, 6)	FT Doc. Stream Masters			
	Program Stage		Total	
	Year 1	Year 2 and Up		
	99	n/a	99	Number FT Doc. Stream Masters Students Receiving Less Than \$17,000
	1,683,000	n/a	1,683,000	Total Required to bring them to \$17,000 Each
(3) OISE/UT	1,007,421	n/a	1,007,421	Current Level of Funding Provided to them
	675,579	n/a	675,579	Size of Gap, Medicine
	64	79	143	Number FT Doc. Stream Masters Students Receiving Less Than \$17,000
	1,088,000	1,343,000	2,431,000	Total Required to bring them to \$17,000 Each
	179,386	150,150	329,536	Current Level of Funding Provided to them
(3) Excluding OISE/UT and Medicine	908,614	1,192,850	2,101,464	Size of Gap, Excluding OISE/UT and Medicine
	734	364	1,098	Number FT Doc. Stream Masters Students Receiving Less Than \$17,000
	12,478,000	6,188,000	18,666,000	Total Required to bring them to \$17,000 Each
	4,418,174	1,991,920	6,410,094	Current Level of Funding Provided to them
	8,059,826	4,196,080	12,255,906	Size of Gap, Excluding OISE/UT and Medicine
All Three Groups Combined	897	443	1,340	Number FT Doc. Stream Masters Students Receiving Less Than \$17,000
	15,249,000	7,531,000	22,780,000	Total Required to bring them to \$17,000 Each
	5,604,981	2,142,070	7,747,051	Current Level of Funding Provided to them
	9,644,019	5,388,930	15,032,949	Size of Gap, Total Combined

Award Types = TA/GA, RA, Fellowships, External, Bursaries, Connaught, DFW, Endowed, and Other Internal Awards

The total of \$73.0 million, of which the \$14.2 million above is a subset, does not include the following:

- (1) \$ 1,134,074 in 1998-99 TA payments that were made to undergraduate and previous graduate students who were not registered in 1998-99.
- (2) \$ 1,153,606 in 1998-99 RA payments that were made to undergraduate and previous graduate students who were not registered in 1998-99.
- (3) \$10,000,164 in OSAP and UTAPS for non-OISE/UT graduate students
- (4) \$ 3,465,628 in OSAP and UTAPS for OISE/UT graduate students

For Medicine:

- (5) Frequency distribution of individual students unknown. Substituted "average" information supplied by the Faculty as a proxy.
- (6) If current level of funding exceeds that required to provide \$17,000 per student then size of gap set to zero.

FIGURE 1A

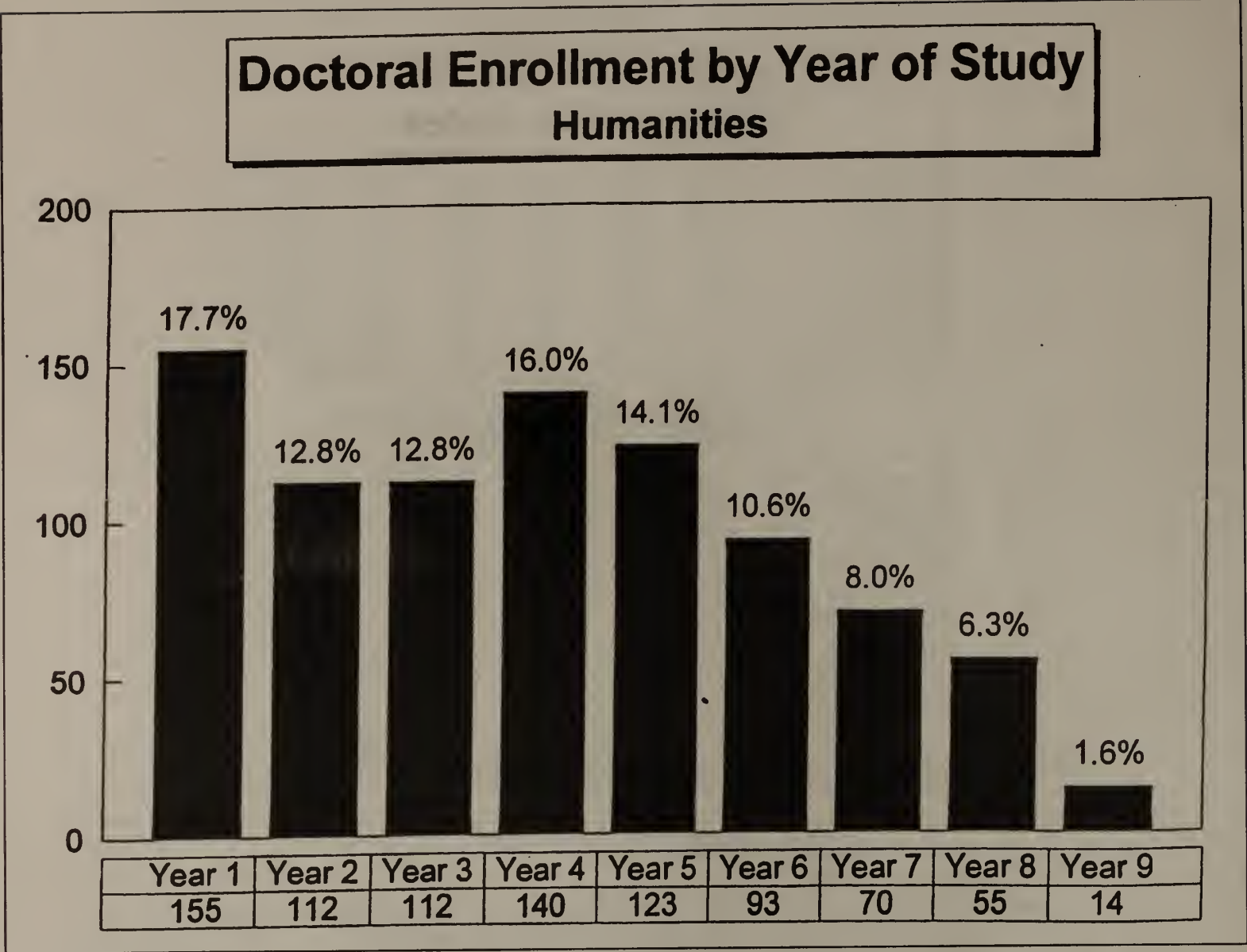


FIGURE 1B

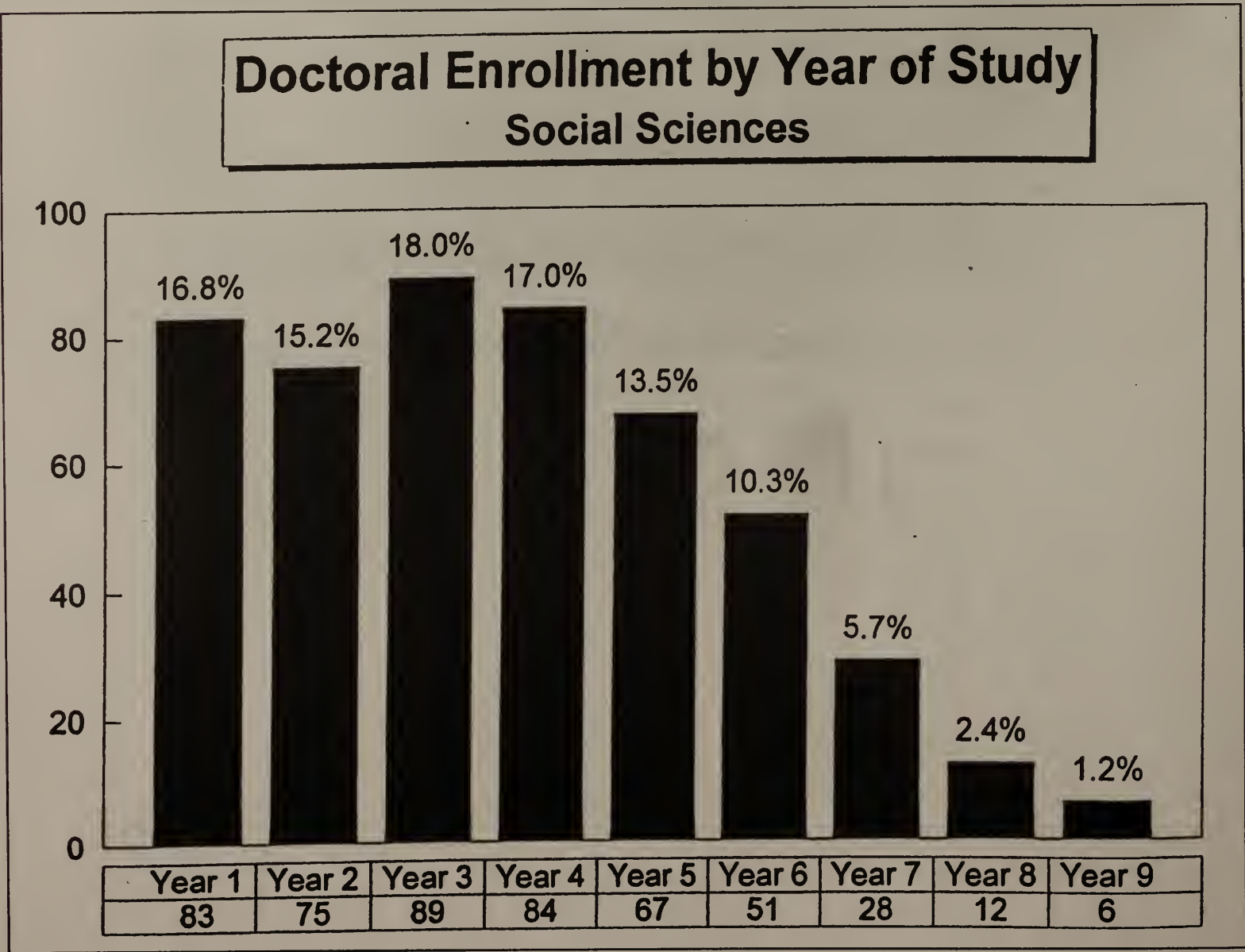


FIGURE 1C

Doctoral Enrollment by Year of Study Physical Sciences

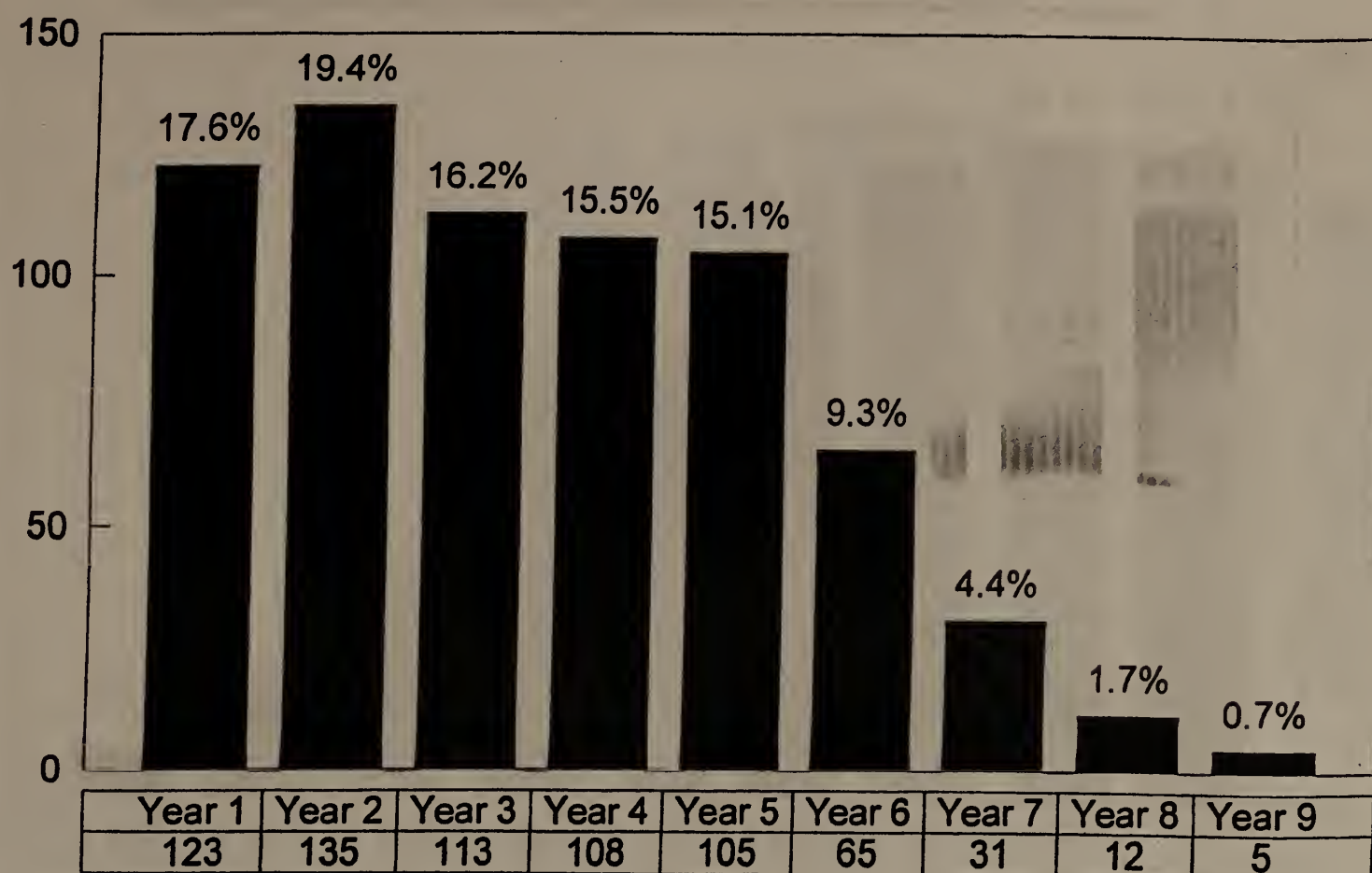


FIGURE 1D

Doctoral Enrollment by Year of Study Life Sciences

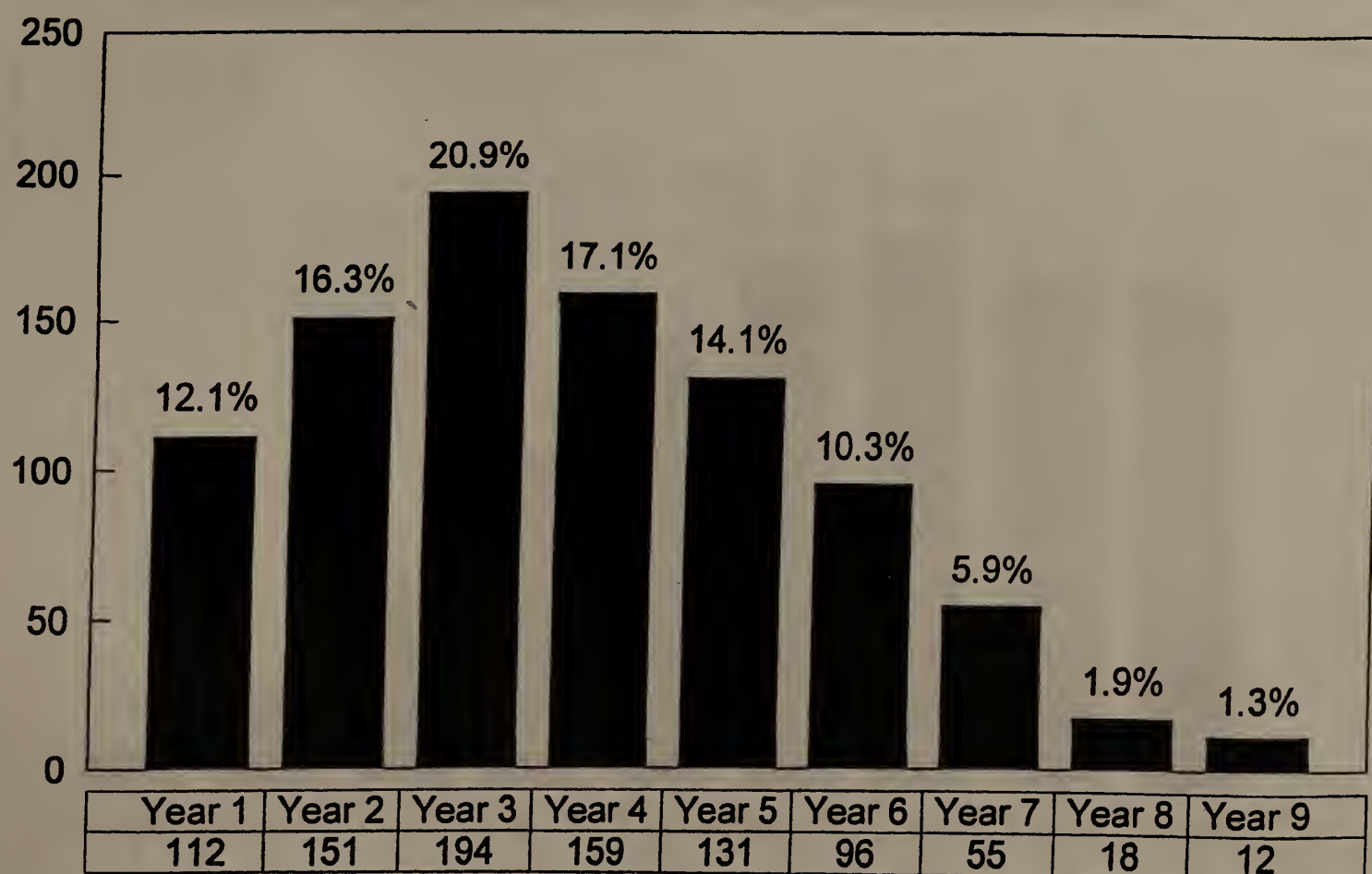


FIGURE 1E

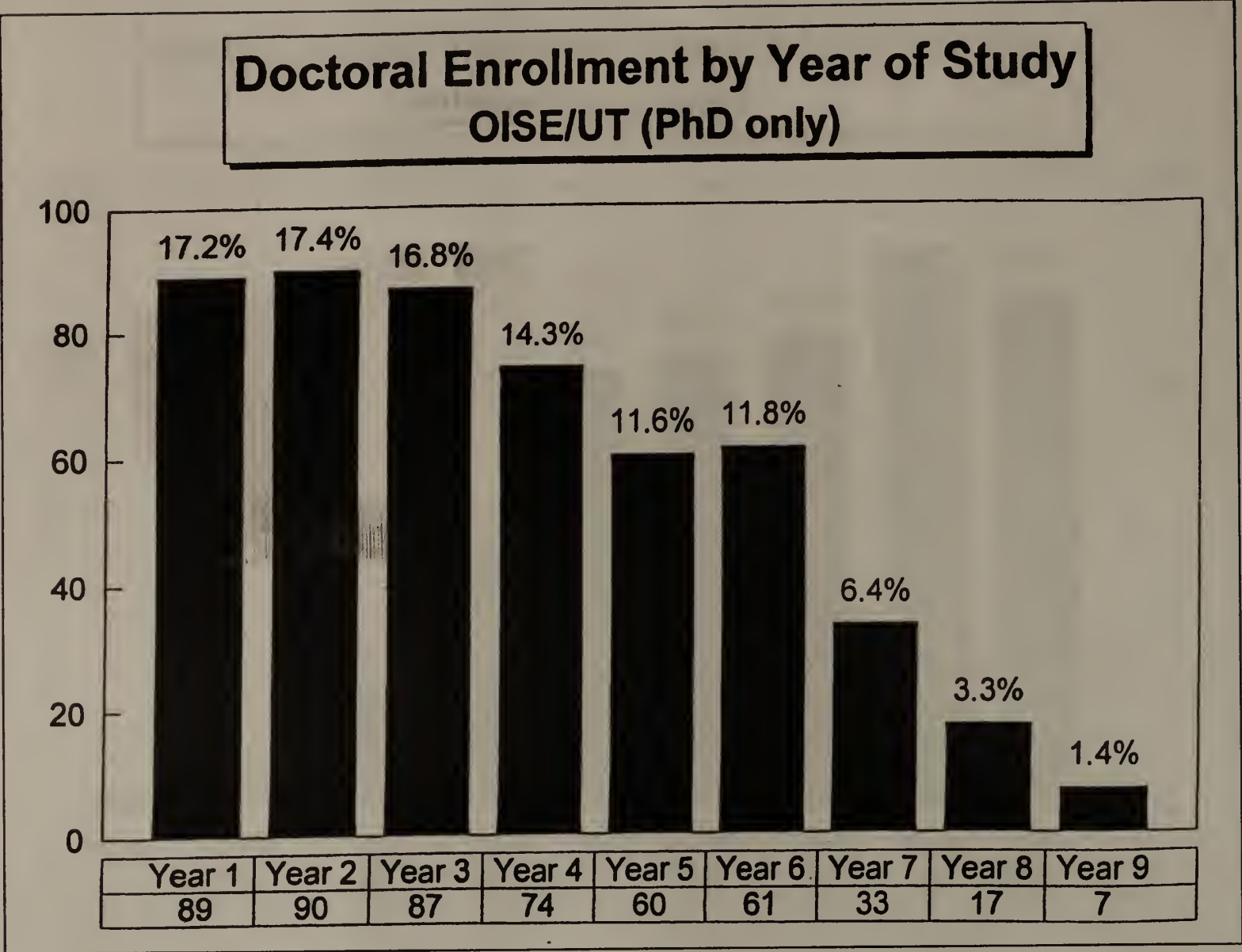


FIGURE 1F

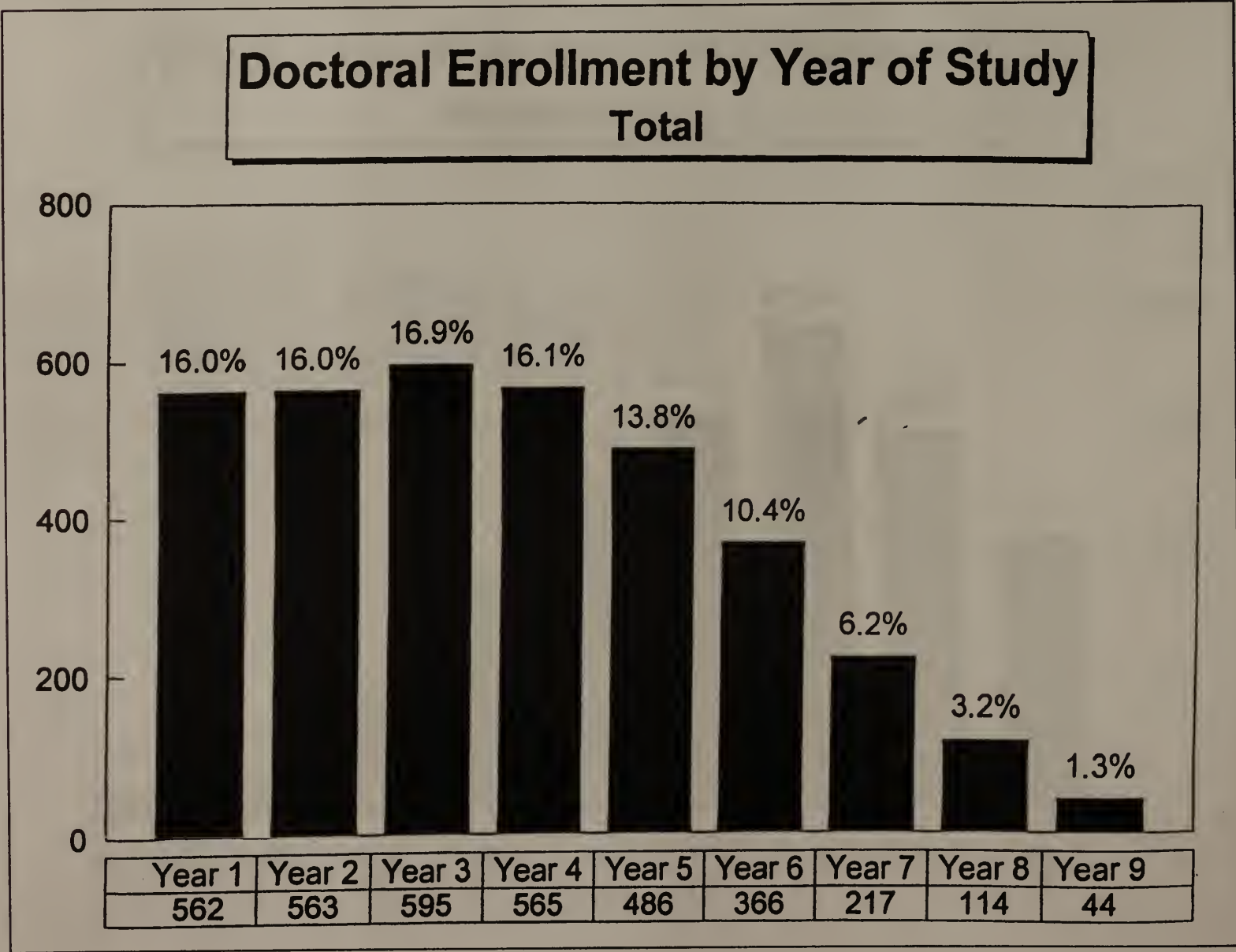
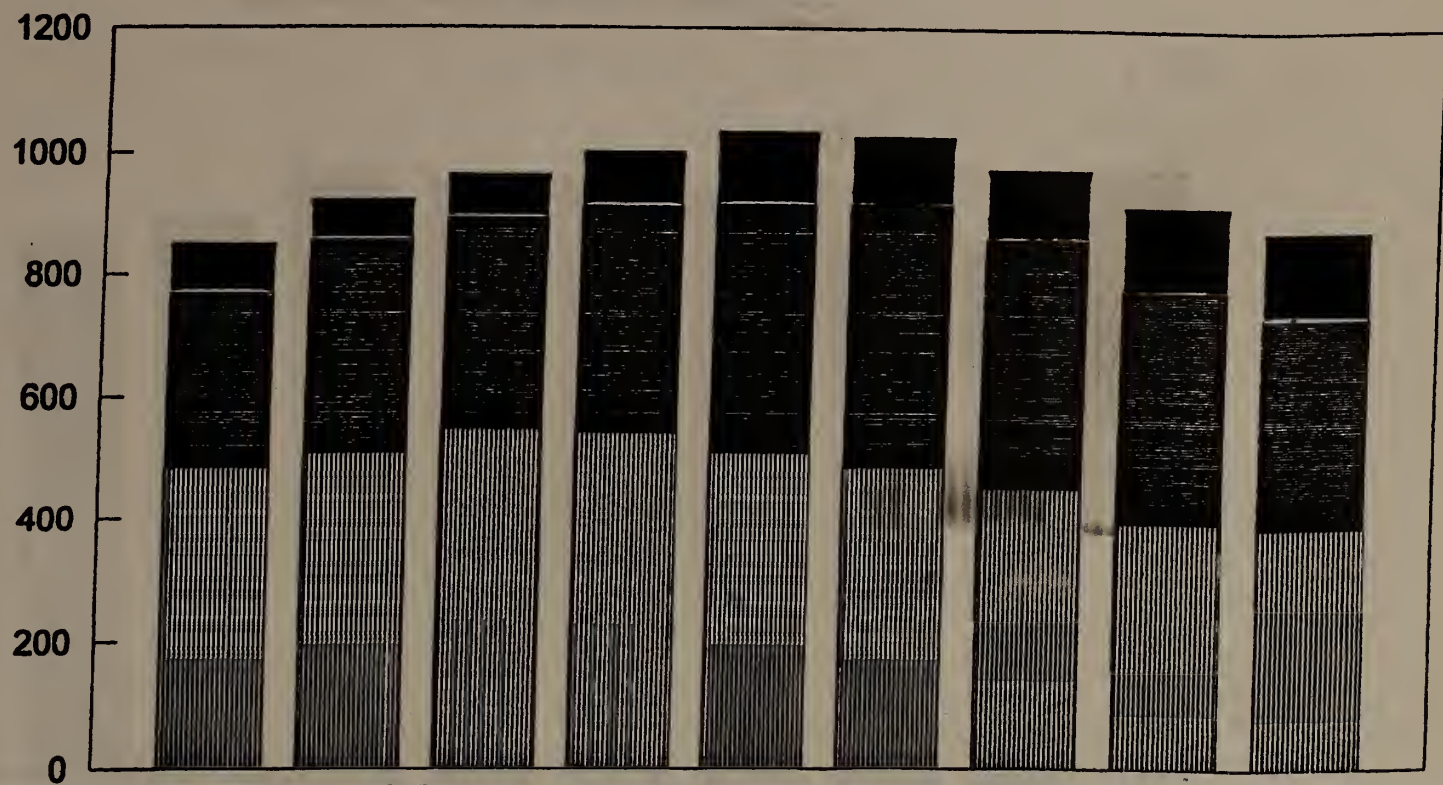


FIGURE 2A

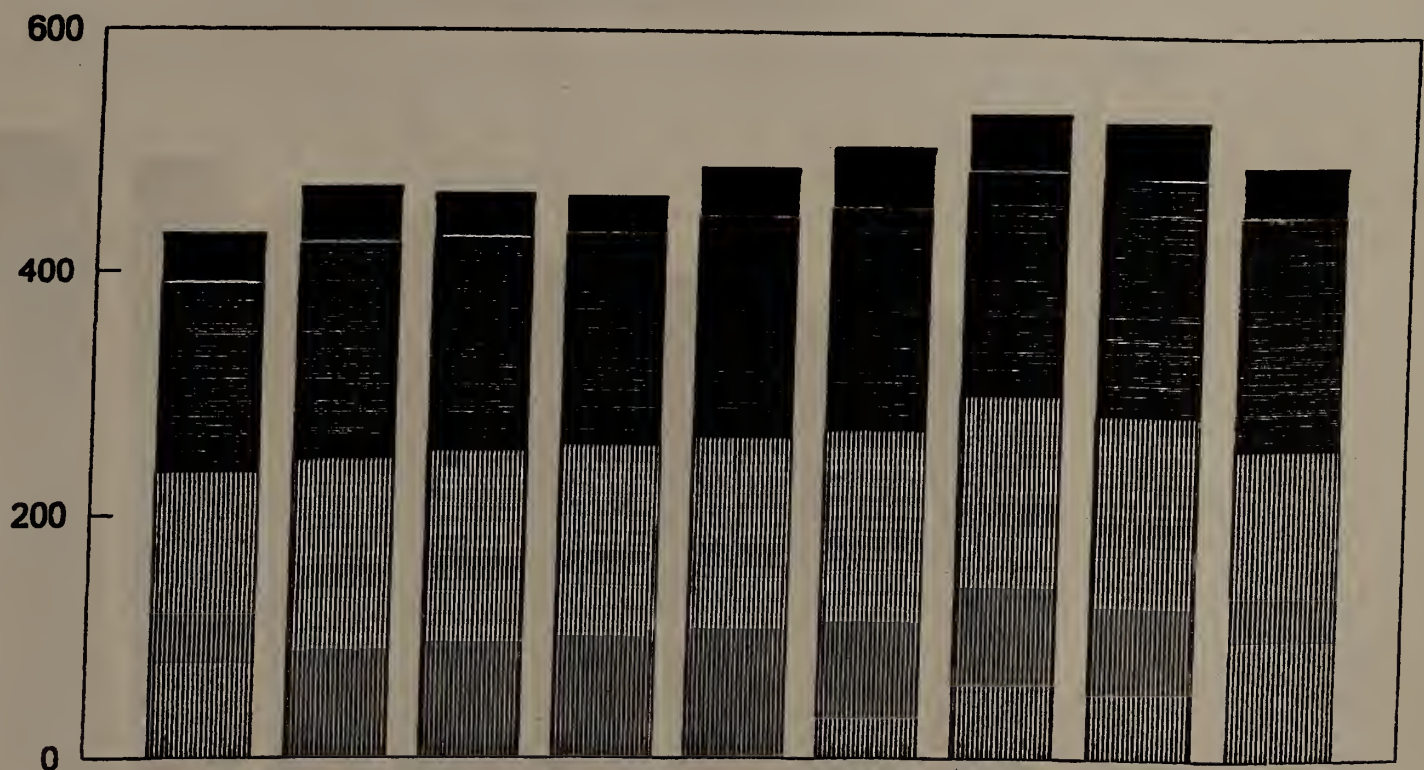
PhD Students by Year of Study
Division 1: Humanities



	1990	1991	1992	1993	1994	1995	1996	1997	1998
Years 1 to 4	484	510	549	543	511	487	451	394	387
Years 5 to 7	288	350	347	373	408	435	414	389	349
Greater than 7	78	62	68	86	115	104	110	133	138

FIGURE 2B

PhD Students by Year of Study
Division 2: Social Sciences



	1990	1991	1992	1993	1994	1995	1996	1997	1998
Years 1 to 4	234	244	251	257	264	270	300	284	257
Years 5 to 7	156	182	180	179	186	189	189	201	197
Greater than 7	43	45	35	29	39	48	46	46	41

FIGURE 2C

PhD Students by Year of Study
Division 3: Physical Sciences

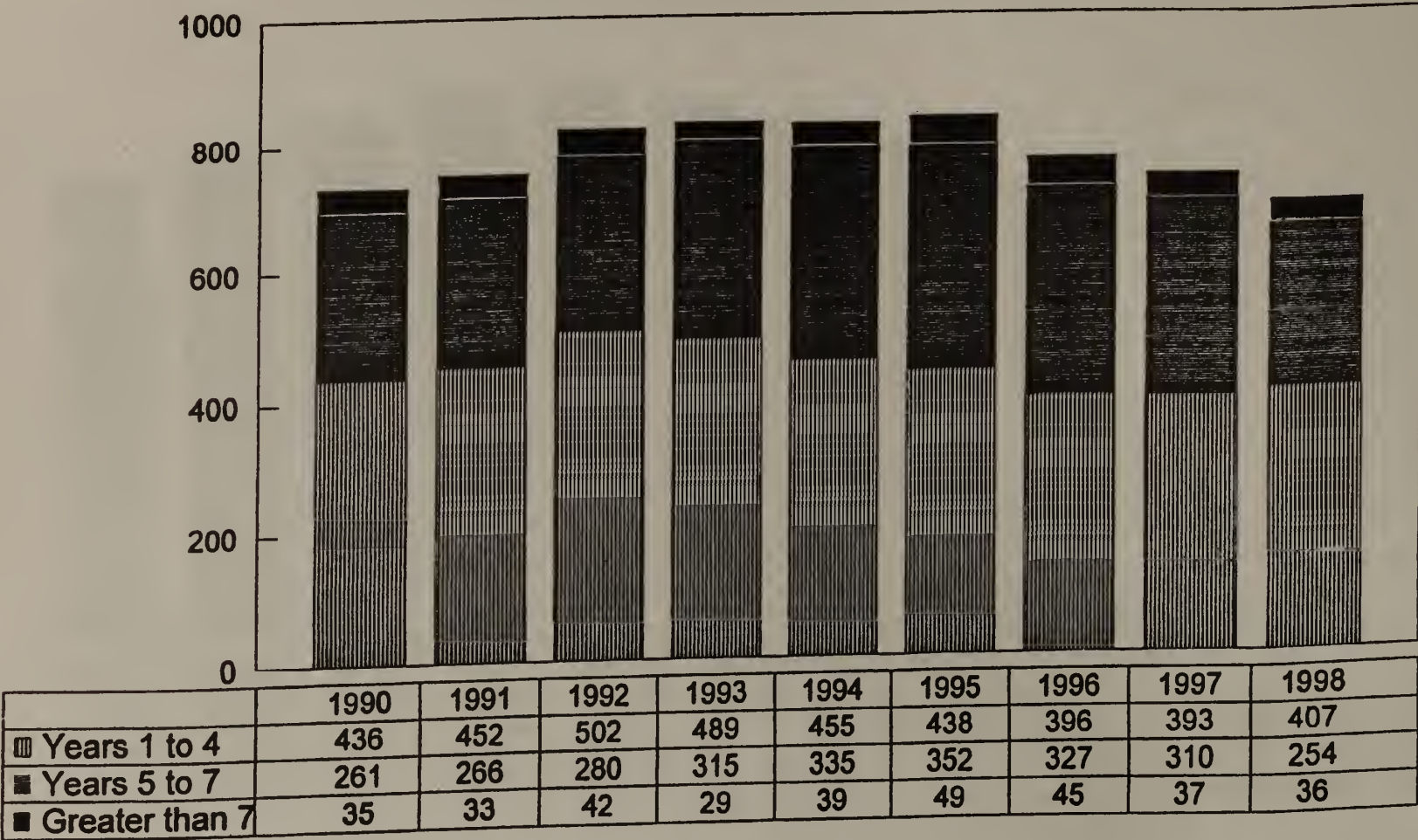


FIGURE 2D

PhD Students by Year of Study
Division 4: Life Sciences

